

**Programming Languages
and Database Language SQL**

VALIDATED PROCESSOR LIST

**Including GOSIP
Conformance Testing Registers**

**Judy B. Kailey
Editor**

**U.S. DEPARTMENT OF COMMERCE
National Institute of Standards
and Technology
National Computer Systems Laboratory
Software Standards Validation Group
Gaithersburg, MD 20899**

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(Supersedes January 1991 Issue)

**U.S. DEPARTMENT OF COMMERCE
Robert A. Mosbacher, Secretary
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1. INTRODUCTION

1.1 Purpose

The Validated Processor List identifies those COBOL, Fortran, Ada, and Pascal programming language processors that have a current validation certificate and those SQL language processors that have a registered test report, referencing the applicable Federal Information Processing Standard (FIPS) as of the date of this publication. The testing of language processors to determine the degree to which they conform to the Federal Standards is required by Government agencies as specified by the FIPS, Federal Information Resources Management Regulation (FIRMR) Parts 201.13 and 201.39, and the associated Federal ADP and Telecommunications Standards Index. Processors scheduled for validation or processors having a current validation certificate or test report may be offered or delivered by vendors in response to requirements as set forth in solicitations by Federal agencies.

This List is updated and published periodically. The information contained herein is supplied by the contributors listed in Appendix A, and is current as of the tenth of the month preceding the publication date. Copies may be obtained by written request from:

National Institute of Standards and Technology (NIST)
Computer Systems Laboratory
Software Standards Validation Group
Building 225, Room A266
Gaithersburg, MD 20899
Telephone (301) 975-3274

The Ada Information Clearinghouse, listed in Appendix A, maintains a current list of validated Ada processors.

1.2 Document Organization

1.2.1 Language Processors

Sections 2, 3, 4, 5, and 6 describe the COBOL, Fortran, Ada, Pascal, and SQL processors, respectively, that have been tested and include the following information:

- The VENDOR ID column contains the name of the Vendor of the processor.
- The PROCESSOR ID column contains the Processor identification and the Validation Summary Report (VSR) or certificate number. This number refers to the VSR that was produced as a result of the testing. The VSR describes the testing environment and details any processor nonconformity that was detected as a result of the testing. Information for obtaining a VSR is listed in Appendix A.

The PROCESSOR ID column for SQL processors contains the name of the processor, its version number, associated interactive SQL or programming language interfaces, and identification of the programming language compilers that interface with the SQL processor.

- Derived processors in the VENDOR & COMPILER column are Ada processors that have been derived from the processor/hardware/operating system environment used during the testing. In order for derived processors to be listed here, they must be properly registered with the Department of Defense, Ada Joint Program Office (AJPO) by the vendor of the processor.

- The **HARDWARE & OPERATING SYSTEM** column presents the hardware and operating system environment (including pertinent supporting system software) used during the validation. In the case of Ada processors, those environments for derived processors will appear in this column.
- The **EXPIRY DATE** column lists the expiration date of the Certificate of Validation (or Notification of Registration for SQL). A processor may be included in the List after the certificate has expired if the validation is in process. Notification must be received by NIST at least 30 days prior to publication of the List in order for such a processor to be included. This expiration date will be followed by "(pending)".
- For COBOL processors, the **SUBSET** column cites the applicable Federal Subset. For Fortran processors, the **LEVEL** column specifies the applicable Federal level. For Pascal processors, the ISO 7185 Pascal Standard Level (ISO 7185 Level 0 is equivalent to FIPS 109). This designation is presented in the **PROCESSOR ID** column.
- The entries in the **OTHER ENVIR** column are other hardware and operating system environments in which the processor operates. The vendor of the processor has certified that the identified processor, when operating under the environments included in this column, produces the same test results as those obtained from the hardware and operating system environment used during the validation. Test results and other information from these environments may be required as evidence for entries to be included in this column.
- The word "Yes" in the **NONCONFORMITIES** column indicates that the processor did not conform to the applicable FIPS in one or more cases as evidenced by the validation. The requirements referenced in Section 1.1 above allows for certain processors to be validated with nonconformities, with the stipulation that the nonconformities are corrected and the processor is revalidated within one year. The VSR should be reviewed for details of nonconformities.

1.2.2 Contributors to the VPL

Appendix A identifies contributors to the main body of the Validated Processor List.

1.2.3 Other FIPS Conformance Testing Products

Appendix B lists other FIPS conformance testing products and services available to the public. Information for these products and services may be obtained by contacting the appropriate contact listed.

1.2.4 GOSIP Registers

To implement FIPS 146 which specifies the Government Open Systems Interconnection Profile (GOSIP), it is necessary to establish policy and procedures for testing Federally procured data communications products for conformance to standards and for interoperability. A FIPS has been proposed for GOSIP Conformance and Interoperation Testing and Registration to assist Federal agencies in procurement of GOSIP products. The FIPS provides for publicly accessible registers verifying supplier claims of conformance and documenting instances of interoperability of GOSIP conformant products. This publication is employed as one mechanism for the issuance of these registers. The first three of the registers which are available are provided as appendices to this document. Appendix C comprises the Register of GOSIP Abstract Test Suites, Appendix D comprises the Register of GOSIP Means of Testing, and Appendix E is the Register of GOSIP Conformance Testing Laboratories.

1.3 FIPS Programming and Database Language Standards

As specified by the FIRMR and the associated Federal ADP and Telecommunications Standards Index, Federal agencies acquire language processors that conform to the following programming and database language FIPS:

- a. COBOL processors must satisfy the provisions of FIPS PUB 21-3, COBOL, and must be identified as implementing all of the language elements of at least one of the subsets of FIPS COBOL as specified in FIPS PUB 21-3.
- b. Fortran processors must satisfy the provision of FIPS PUB 69-1, Fortran, and must be identified as implementing all of the language elements of the subset or full levels of FIPS Fortran as specified in FIPS PUB 69-1.
- c. Pascal processors must satisfy the provisions of FIPS PUB 109, Pascal.
- d. Ada processors must satisfy the provisions of FIPS PUB 119, Ada.
- e. SQL processors must satisfy the provisions of FIPS PUB 127-1, Database Language SQL.

Copies of the above publications are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

1.4 Validation of Processors

1.4.1 Validation Requirements

In accordance with the requirements referenced in Section 1.1, processors offered to the Government for purchase, lease, or use in connection with ADP services shall be validated for conformance to FIPS for programming languages or Database Language SQL. To confirm that the specifications of the designated FIPS have been met:

- a. the processor shall be tested with the Compiler Validation System (CVS) approved by NIST,
- b. the processor validations shall be conducted in accordance with NIST validation procedures,
- c. a Validation Summary Report (VSR) shall be produced summarizing the test results of the CVS on the designated processor,
- d. all deficiencies noted in the VSR shall be corrected within twelve months,
- e. a Certificate of Validation shall be issued if validation results warrant. In order for an Ada processor to receive a Certificate of Validation the processor must successfully pass all applicable tests of the Ada Compiler Validation Capability (ACVC) without exception.

The Federal ADP and Telecommunications Standards Index supplies standard terminology which may allow for delayed validation. When delayed validation is allowed, the offeror may meet this requirement by showing evidence of having submitted the processor for validation. Proof of submission is in the form of a letter from NIST scheduling the validation.

Programming and database language processors offered to the Federal Government must comply with the applicable Government requirements. Failure to comply with these requirements shall be deemed sufficient cause to declare a bidder non-responsive or to declare a vendor in default for failure to deliver required software.

1.4.2 Placement in the List

For a processor to be placed in the List it must:

- a. have been officially validated within the past twelve calendar months, and
- b. have no errors remaining that were identified during a previous test.

1.4.3 Removal from the List

A processor is removed from the List when:

- a. the processor is not officially tested within twelve calendar months, or
- b. testing indicates that the processor still contains errors identified during a previous validation.

1.4.4 Validation Procedures

Validation procedures are published in the following documents:

Compiler Validation Procedures, dated February 1, 1990
Ada Compiler Validation Procedures and Guidelines, Version 2.1, August, 1990
Language Processor Validation Procedures for SQL Validation Service (Trial Use Period)

1.5 Certificate of Validation

A Certificate of Validation is issued for those programming language processors that have been tested and are considered to be in compliance with the FIPS as specified by the FIPS, FIRMR and the associated Federal ADP and Telecommunications Index.

The requirement for retesting may be waived and the certificate of validation extended at the option of NIST if:

- a. no errors were identified during the previous testing of the processor,
- b. the vendor certifies, in writing, to NIST that no changes have been made to either the processor or the supporting system software, and
- c. no new version of the validation system has been officially released during the interim period.

1.6 Registered Report

A registered Validation Summary Report is issued for those SQL processors that have been tested and are considered to be in compliance with FIPS as specified by the FIPS, by the FIRMR, and the associated Federal ADP and Telecommunications Standards Index. SQL processors are tested in accordance with procedures described in the NIST Language Processor Validation Procedures for SQL Validation Service (Trial Use Period).

1.7 Processor Validation Suites

The following is a list of the current versions of the validation suites, and ordering information for each one.

- a. Copies of the COBOL, Fortran, and Ada Compiler Validation Suites may be purchased from the following organization using the ordering information provided below:

National Technical Information Service (NTIS)
5285 Port Royal Road
Springfield, VA 22151
Telephone (703) 487-4750 (Voice)
(703) 321-8547 (FAX)

COMPILER VALIDATION SYSTEM [MEDIUM/FORMAT]	VERSION	NTIS ACCESSION NUMBER
COBOL 85 (CCVS85)	2.1	PB90-501925
Fortran (FCVS78)	2.0	PB85-226736
Ada [Tape/Backup]	1.11	ADA212551
Ada [Tape/Tar]	1.11	ADA212437
Ada [Tape ANSI Standard]	1.11	ADA212548
Ada [Disk (MS/DOS)]	1.11	ADA212549

- b. The current version of the Pascal Validation System (PVS) is Version 5.2 and is available from:

British Standards Institution (BSI)
Software Engineering Department
BSI Quality Assurance
P. O. Box 375
Milton Keynes
MK14 6LL
ENGLAND
Telephone (011) +44-908-220908 (Voice)
(011) +44-908-220671 (FAX)

- c. The current version of the SQL Validation System is Version 2.0 and is available from:

National Institute of Standards and Technology (NIST)
Computer Systems Laboratory
Database and Graphics Group
Building 225, Room A266
Gaithersburg, MD 20899
Telephone (301) 975-3258, (301) 975-3267 (Voice)
(301) 590-0932 (FAX)

2. COBOL PROCESSORS

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	SUBSET	OTHER ENVIR HW/OS	NONCON- FORMITIES
Bull HN Information Systems, Inc.	COBOLM Release 2.0 <i>NIST-90/1321</i>	DPS 6000 Model 634 <i>GCOS6 HVS Version 2.0</i>	2/1/92	High	DPS6/EMMU Series <i>GCOS6 Mod 400 Release 4.1</i> DPS6 PLUS Series <i>HVS6 PLUS Version 2.0</i> DPS 6000 Series <i>GCOS6 HVS Version 2.0</i>	Yes
	COBOL-85 Version 8C82.2 Update 0 <i>NIST-90/1281</i>	DPS-90 <i>GCOS8 Version 40003</i>	5/1/91	High	DPS-9000, DPS-8000 <i>GCOS8 Version 40003</i>	
Concurrent Computer Corporation, Ltd.	COBOL Plus R00.00 <i>NIST/NCC-90/929</i>	Concurrent 3210 <i>OS/32 R08-03.01</i>	6/21/91	High	Concurrent Series 3200: 3200MPS 3203 3205 3210 3212 3230 3230SP 3230MPS 3240 3250SP 3260MPS 3280MPS 3280EMPS; MicroThree and MicroFive <i>OS/32 R08-03.1</i>	
	COBOL Plus R00.00 <i>NIST/NCC-90/930</i>	Concurrent MC5400 <i>RTU Version 5.0</i>	6/21/91	High	MC5520, MC5550, MC5300, MC5400, MC5600, MC5700, MC6300, MC6400, MC6600 and MC6700 families <i>RTU Version 5.0</i>	
Control Data Corporation	COBOL/VE Version 1.9 Release 90330 <i>NIST-91/1431</i>	CYBER 180-995 <i>NOS/VE Version 1.5.3 Level 765</i>	3/1/92	High	CYBER 180 Series; CYBER 2000 <i>NOS/VE Version 1.5.3 Level 765</i>	Yes
Data General Corporation	ACUCOBOL-85 Version 1.5 <i>NIST-90/1181</i>	MV/10000 <i>AOS/VS II Version 1.12</i>	4/1/91	Intermediate	MV Family <i>AOS/VS II Version 1.12</i>	
Digital Equipment Corporation	VAX COBOL Version 4.4 <i>NIST-90/2201</i>	VAX 8800 <i>VAX/VMS Version 5.4</i>	11/1/91	High	VAX 6000 Mod 200, 300, 400; VAX 8200, 8250, 8300, 8350, 8500, 8530, 8550, 8600, 8650, 8700, 8800, 8810, 8820, 8830, 8840, 8842, 8974, 8978, 9000; MicroVAX, II, 2000, 3100, 3300, 3400, 3500, 3600, 3800, 3900; VAXstation II, 2000, 3100, 3200, 3500, 3520, 3540, 8000; VAXserver 3100, 3300, 3400, 3500, 3600, 3602, 3800, 3900, 6000-210, 6000-310, 6000-410, 6000-420; <i>VAX/VMS Version 5</i>	
Harris Corporation	LPICOBOL Release 6.01 <i>NIST-90/1191</i>	Nighthawk 1000/3000 <i>CX/UX Version 5.0</i>	5/1/91	High	NH3800 <i>CX/UX Version 5.0</i>	Yes
Hewlett-Packard Company	COBOLII/XL Version A.02.19x <i>NIST-90/1241</i>	HP3000 Series 930 <i>MPE XL Version A.30.00</i>	5/1/91	High	HP3000 Series 925, 935, 950, 955, 960, 965 <i>MPE XL Version A.30.00</i>	
	COBOLII/V Version A.02.00 <i>NIST-90/1242</i>	HP3000 Series 70 <i>MPE/V Release G.03.05</i>	5/1/91	High	HP3000 Series 37, 40, 42, 48, 54, 58, 64, 68, 70 <i>MPE/V Version G.03.05</i>	

COBOL PROCESSORS *Continued*

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	SUBSET	OTHER ENVIR HW/OS	NONCON- FORMITIES
	COBOLII/HP-UX Version X.02.02 <i>NIST-90/1243</i>	HP 9000 Series 840 <i>HP-UX Version A.B7.00</i>	5/1/91	High	HP 9000 Series 808, 825, 835, 840, 855, 870, 875 <i>HP-UX Version A.B7.00</i>	
	COBOLII/HP-UX Version X.01.09 <i>NIST-90/1244</i>	HP 9000 Series 370 <i>HP-UX Version 6.5 B</i>	5/1/91	High	HP 9000 Series 318, 319, 320, 330, 332, 340, 350, 360, 370, 375 <i>HP-UX Version 6.5 B</i>	
IBM Corporation	AIX VS COBOL /6000 & AIX VS COBOL Run Time Env./6000 Version 1, Release 1 <i>NIST-91/1351</i>	IBM RISC SYSTEM/6000 POWERstation 520 <i>AIX Version 3 for RISC SYSTEM/6000 Version 3 Release 1</i>	2/1/92	High	IBM RISC SYSTEM/6000 POWERstations 320, 520, 530, 550, 730; <i>IBM RISC SYSTEM/6000 POWERservers 320, 520, 530, 540, 930 AIX Version 3 for RISC SYSTEM/6000 Version 3 Release 1</i>	Yes
	VS COBOL II Version 1 Release 3.2 <i>NIST-91/1441</i>	IBM 3090 <i>MVS/ESA Version 3 VM/ESA Version ESA, Release 1.0</i>	3/1/92	High	IBM 370, 3000, 4300, 9300 <i>MVS/370 Version 1, MVS/XA Version 2, VM SP Release 6</i>	Yes
	VS COBOL II Version 1 Release 3.2 <i>NIST-91/1442</i>	IBM 4381 <i>VSE/ESA Version 1 Release 1</i>	3/1/92	Intermediate	IBM 3000, 4300, 9300, 370 <i>VSE/ESA Version 1 Release 1</i>	Yes
	COBOL/400 Version 1 Release 3.0 <i>NIST-90/2261</i>	AS/400 <i>OS/400 Version 1 Release 3.0</i>	11/1/91	Intermediate		
	AIX PS/2 VS COBOL Version 1.1 <i>NIST-89/1891</i>	PS/2 Model 8580 <i>AIX PS/2 Version 1.1</i>	8/1/91	High	PS/2 Model 8570 <i>AIX PS/2 Version 1.1</i>	
	IBM System 88 COBOL Release 6.0 <i>NIST-89/1862</i>	IBM System 88 Model 84 <i>OS Release 6.0</i>	9/1/91	High	IBM System 88 Models 40, 50, 81, 82, 83, 85, 86 <i>OS Release 6.0</i>	
	RM/COBOL-85 for the AS/400 Version 3 <i>NIST-90/2105</i>	IBM AS/400 9406 <i>OS/400 Release 3 M00</i>	10/1/91	High		Yes
Micro Focus Ltd.	Micro Focus COBOL/2 Version 2.4 <i>NIST-90/1621</i>	IBM PS/2 Model 80 <i>IBM DOS Version 4.0</i>	8/1/91	High	IBM PS/2 55SX, 60, 70 <i>IBM DOS Version 4.0</i>	
		IBM PS/2 Model 80 <i>OS/2 Version 1.2</i>			IBM PS/2 55SX, 60, 70, 80 <i>IBM DOS Version 3.3</i>	
		IBM PC/AT <i>IBM DOS Version 4.0</i>			IBM PS/2 55SX, 60, 70 <i>OS/2 Version 1.2</i>	
					IBM PS/2 55SX, 60, 70, 80 <i>OS/2 Version 1.1</i>	
	COBOL/2 Version 1.1.0 <i>NIST/NCC-90/931</i>	Data General AViiON 5000 (Motorla 88000 Processor) <i>DG-UX Version 4.20</i>	7/1/91	High		
	COBOL/2 Version 1.1.0 <i>NIST/NCC-90/932</i>	Texas Instruments Bs1500 (Motorola 68020 Processor) <i>Texas Instruments System V3.2</i>	7/1/91	High		

COBOL PROCESSORS *Continued*

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	SUBSET	OTHER ENVIR HW/OS	NONCON- FORMITIES
	COBOL/2 Version 1.1.0 <i>NIST/NCC-90/933</i>	Texas Instruments BS1300 (Intel 80386 processor) <i>Xenix System V Release 2.2</i>	7/1/91	High	IBM PS2 model 80; Zenith 1000; Compaq 386 <i>SCO XENIX Versions 2.2, 2.3</i>	
	COBOL/2 Version 1.1.0 <i>NIST/NCC-90/934</i>	Hewlett-Packard 9000/800 Model 840 (RISC Spectrum Processor) <i>HP-UX Release A.B.300</i>	7/1/91	High	HP9000/825, 835, 850, 855 <i>HP-UX Release 3.0</i>	
	COBOL/2 Version 1.1.0 <i>NIST/NCC-90/935</i>	AT&T 3B2/1000 (Western Electrics 32k processor) <i>Unix System V Version 3.2.2</i>	7/1/91	High	AT&T 3B2 310/400/500 /600/700 AT&T 3B1000 60/70/80 AT&T 3B15 <i>Unix System V Versions 3.2.2</i>	
	COBOL/2 Version 1.1.0 <i>NIST/NCC-90/939</i>	Elonex 386 (Intel 80386) <i>SCO Unix 386 Version 3.2</i>	7/1/91	High	Altos 386/2000, 386/3000 <i>Unix System V Version 5.3</i> AT&T WG2 6386 <i>Unix System V Version 3.2</i> Unisys 6000/50 <i>Unix Version 2.0</i> ICL DRS300 <i>DRS/NX Version 3.0</i> Philips PG130 <i>Unix System V Version 3.0</i> Prime 386 EXL-316 <i>Unix System V/386 Release 3.0</i> JDR 386 <i>SCO Unix System V Version 3.2</i>	
	COBOL/2 Version 1.1.0 <i>NIST/NCC-90/936</i>	Motorola 68030 (Motorola 68030 processor) <i>Unix System V/68 Release BSE Version 880617</i>	7/1/91	High		
	COBOL/2 Version 1.1.0 <i>NIST/NCC-90/937</i>	SUN4/260 (Sparc. Risc) <i>SUNOS Release 4.0</i>	7/1/91	High		
	COBOL/2 Version 1.1.0 <i>NIST/NCC-90/938</i>	Siemens MX300 (Nat. Semi 32k) <i>SINIX-H Version 5.2</i>	7/1/91	High		
	COBOL/2 Version 1.1.0 <i>NIST/NCC-90/940</i>	IBM 4381 700 <i>UTS Version 1.1 (amdahl)</i>	7/1/91	High	Fujitsu Facom - M760 <i>UTS Sys V Release 5</i>	

COBOL PROCESSORS *Continued*

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	SUBSET	OTHER ENVIR HW/OS	NONCON- FORMITIES
Microsoft Corporation	Microsoft COBOL Version 4.0 <i>NIST-90/1622</i>	IBM PS/2 Model 80 <i>IBM DOS Version 4.0</i>	8/1/91	High	IBM PS/2 55SX, 60, 70 <i>IBM DOS Version 4.0</i> IBM PS/2 55SX, 60, 70, 80 <i>IBM DOS Version 3.3</i>	
		IBM PS/2 Model 80 <i>OS/2 Version 1.2</i>			IBM PS/2 55SX, 60, 70 <i>OS/2 Version 1.2</i> IBM PS/2 55SX, 60, 70, 80 <i>OS/2 Version 1.1</i>	
		IBM PC/AT <i>IBM DOS Version 4.0</i>			IBM PC/XT <i>IBM DOS Version 4.0</i> IBM PC/AT, IBM PC/XT <i>IBM DOS Version 3.3</i>	
		IBM PC/AT <i>OS/2 Version 1.2</i>			IBM PC/AT <i>OS/2 Version 1.1</i>	
		Compaq 386 <i>IBM DOS Version 4.0</i>			Compaq 386 <i>IBM DOS Version 3.3</i>	
		Compaq 386 <i>OS/2 Version 1.2</i>			Compaq 386 <i>OS/2 Version 1.1</i>	
NCR Corporation	VCOBOL85 Version 15 Release 1.03.00 <i>NIST-90/2141</i>	NCR 9844 <i>VRX/E Version 2.0</i> <i>Release VE 2.20.11</i>	9/1/91	High	NCR 8500/8600/8800 <i>VRX/E Version 2.0</i> <i>Release VE 2.20.11</i>	
	ITX COBOL 85 Version 7.0 <i>NIST-90/2142</i>	ITX 9400 <i>ITX Release ITX 7.0</i>	9/1/91	High	System 9000, System 10000 <i>ITX Release ITX 7.0</i>	
Prime Computer, Inc.	COBOL 85 Version 1.1.1-22.0 <i>NIST-90/2281</i>	Prime 9955 - 64V mode machine architecture <i>PRIMOS Version 22.1.3</i>	12/1/91	Intermediate	Prime 50 Series machines 64V mode machine architecture <i>PRIMOS Revision 22.1.1</i>	
Pyramid Technology Corporation	COBOL 85 Release 5.0 <i>NIST-90/1341</i>	MIS/2-2 <i>OSx Version 5.0</i>	7/1/91	High		Yes
Realia, Inc.	Realia COBOL Version 4.1 <i>NIST-91/1421</i>	Compaq 486/25 <i>DOS Version 4.0</i> <i>OS/2 Version 1.2</i> IBM PC/AT <i>DOS Version 4.0</i> <i>OS/2 Version 1.2</i>	2/1/92	High	Yes	
Ryan-McFarland Corporation	RM/COBOL-85 Version 5.00.00 <i>NIST-90/2101</i>	IBM PS/2 Model 80 <i>PC/DOS Version 4.01</i>	10/1/91	High		
	RM/COBOL-85 Version 5.00.00 <i>NIST-90/2102</i>	NCR PC925 <i>SCO Unix System V/386</i> <i>Release 3.2.0</i>	10/1/91	High	NCR PC925 <i>Interactive Unix System V/386</i> <i>Release 2.2</i>	
	RM/COBOL-85 Version 5.00.00 <i>NIST-90/2103</i>	NCR PC486/MC <i>AT&T Unix V.4 Version i386</i> <i>Release 0.00.00.08</i>	10/1/91	High		

COBOL PROCESSORS *Continued*

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	SUBSET	OTHER ENVIR HW/OS	NONCON- FORMITIES
	RM/COBOL-85 Version 5.00.00 <i>NIST-90/2104</i>	IBM RISC System/6000 <i>ALX Version 3</i>	10/1/91	High		
	RM/COBOL-85 Version 5.00.00 <i>NIST-90/2106</i>	HP 9000 Model 325 <i>HP-UX Version 7.0</i>	10/1/91	High		
	RM/COBOL-85 Version 5.00.00 <i>NIST-90/2107</i>	HP 9000 Model 825 <i>HP-UX Version 7.0</i>	10/1/91	High		
Sequent Computer Systems, Inc.	ptx/COBOL Version 1.1ap <i>NIST-90/2181</i>	Sequent Symmetry S16 <i>Dynix/ptx Version 1.2</i>	9/1/91	High	Sequent Symmetry S3, S16, S27, S81 <i>Dynix/ptx Version 1.1, 1.2</i>	
Stratus Computer, Inc.	VOS COBOL Release 10.0 <i>NIST-89/1861</i>	Stratus XA2000 Model 150 <i>VOS Release 9.0</i>	9/1/91	High	Stratus XA2000 Models 100, 120, 130, 140, 150; XA400/ XA440; XA2000 Model 100 <i>VOS Release 9.0</i>	
Sun Microsystems	SUN COBOL Version 1.0 <i>NIST-90/2201</i>	Sun Sparcstation 1+ <i>SUNOS Version 4.1</i>	12/1/91	High	Sparcstation SLC, IPC, 1, 330, 370, 470; Sparcserver 1+, 330, 370, 470, 390, 490 <i>SUNOS Version 4.1, 4.03, 4.1.1</i>	Yes
Tandem Computers Inc.	COBOL85 Version C30 <i>NIST-91/1461</i>	Nonstop VLX <i>Guardian 90 Version C30</i>	3/1/92	High	NonStop Cyclone, NonStop TXP, CLX, EXT <i>Guardian 90 Version C30</i>	Yes
	Micro Focus COBOL/2 Version 1.1 <i>NIST-90/1601</i>	Integrity S2 <i>Non Stop-UX Release A01</i>	7/1/91	High		Yes
UNISYS Corporation	NPE COBOL (UCOB) Version 4R1B Release SB3R4 <i>NIST-89/1721</i>	1100/90 <i>1100 OS Exec 41R5 Release SB3R4</i>	8/1/91	High	2200 Series <i>1100 OS Exec 41R6 Release SB3R4</i>	
	A Series COBOL ANSI-85, Version 2.0 <i>NIST-90/2161</i>	Unisys A5 <i>MCP/AS MARK 3.9</i>	9/1/91	High	Unisys Micro A, A1, A2, A3, A4, A5, A6, A9, A10, A12, A15, A17/A19; <i>MCP/AS MARK 3.9</i> Unisys A Series: A5 <i>MCP MARK 3.9</i>	
	Micro Focus COBOL/2 Version 1.1 Release 2 <i>NIST-91/1241</i>	U6000/70 <i>Unix System V Release 3.2</i>	10/1/91	High	U6000/10 /WS /31 /51 /55 /60 /80 <i>Unix System V Release 3.2</i>	Yes
Wang Laboratories, Inc.	VS COBOL 85 Version 2.10.07 <i>NIST-90/2301</i>	WANG VS 300 <i>VS OS Version 7.30.00</i>	11/1/91	High	VS 5, 6, 15, 25, 45, 65, 85, 90, 100, 300; 5000, 7000, 8000, 10000 Series <i>VS OS Version 7.20.00-07.21.03</i> VS 300, 7000, 8000, 10000 Series <i>VS OS Version 7.30.00</i>	

3. FORTRAN PROCESSORS

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
Alliant Computer Systems Company	FX/Fortran Version 4.2 <i>NIST-90/1802</i>	FX/80 <i>Concentrix Version 5.0</i>	11/1/91	Full	FX/1, FX/4, FX/8, FX/40, FX/82; VFX/4, VFX/40, VFX/80, VFX/82 <i>Concentrix Version 5.0</i>	
	FX/Fortran-2800 Version 1.0 <i>NIST-90/1801</i>	FX/2800 <i>Concentrix Version 1.1</i>	11/1/91	Full		
Amdahl Corporation	Amdahl Fortran 77 Version 10 Level 31 <i>NBS/ICST-88/3561A</i>	Amdahl 5860 <i>IBM MVS/SP Version 2.2.0</i>	12/1/91	Full	Amdahl 580, Amdahl Vector Processor <i>IBM MVS/SP Version 2</i>	
	Amdahl Enhanced Fortran 77 Version 10 Level 31 <i>NBS/ICST-88/3565A</i>	Amdahl 5860 <i>UTS Version 1.2</i>	12/1/91	Full	Amdahl 580, 5890, 5990 <i>UTS Version 1.2</i>	
	Amdahl Fortran 77/VP Version 10 Level 30 <i>NBS/ICST-88/3562A</i>	Amdahl 1200E <i>IBM MVS/SP Version 2.2.0</i>	12/1/91	Full	Amdahl 580 Amdahl Vector Processor <i>IBM MVS/SP Version 2</i>	
Apollo Computer Inc.	DOMAIN Fortran Version 10.8 <i>NIST-90/2001</i>	DN10000 <i>Domain OS Version SR10.3</i>	10/1/91	Full	DN300, DN320, DN330, DN460, DN550, DN560, DN570, DN580, DN590, DN660, DN3000, DN4000, DN4500 <i>Domain OS Version SR10.3</i>	
Bull HN	FORTRANA Release R3.0 <i>NIST-90/1322</i>	DPS6 PLUS Model 634 <i>GCOS6 HVS Version 2.0</i>	2/1/92	Full	DPS6/EMMU Series <i>GCOS6 Mod 400 Release 4.1</i> DPS6 PLUS Series <i>HVS6 PLUS Version 2.0</i> DPS 6000 Series <i>GCOS6 HVS Version 2.0</i>	
	Fortran 77-ESV Version 8FV3.1 Update 0 <i>NIST-90/1282</i>	DPS-9000 <i>GCOS8 Version SR40003 (with SR30004)</i>	5/1/91	Full	DPS-90, DPS-8000 <i>GCOS8 Version SR40003 (with SR30004)</i>	
	Fortran SXL-3001 Version 01.00 <i>BLA/90/001</i>	DPX/2 210 <i>B.O.S. Versions 01.01 and 02.00</i>	11/15/91	Full	DPS/2 200 and 300 <i>B.O.S. Versions 01.00 and 02.00</i>	
Concurrent Computer Corporation	SP-2450 (Fortran 77) Version 2.0 <i>NIST-90/1001</i>	MC 5600 with MC68881 and Lightning floating point hardware <i>RTU Version 5.0</i>	5/1/91	Full	MC5300, MC5400, MC5700, with MC68881 and Lightning floating point hardware <i>RTU Version 5.0</i>	
	SP-2450 (Fortran 77) Version 2.0 <i>NIST-90/1002</i>	MC 6300 with MC68882 and Lightning floating point hardware <i>RTU Version 5.0</i>	5/1/91	Full	MC6350, MC6400, MC6450, MC6600, MC6700, MC6750 with MC68882 and Lightning floating point hardware <i>RTU Version 5.0</i>	
	SP-2450 (Fortran 77) Version 1.7 <i>NIST-90/1003</i>	MC 8500 <i>RTU Version 5.1</i>	5/1/91	Full	MC8400 <i>RTU Version 5.1</i>	

FORTRAN PROCESSORS, *Continued*

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
	Fortran VII Z Version R06 Release 00 <i>NIST-90/1501</i>	3280 MPS <i>OS/32 Version R08 Release 03</i>	7/1/91	Full	3205, 3210, 3220, 3240, 3250, 3230XP, 3230MPS, 3260MPS, 3280E MPS; 8/32; Micro 3200CS, Micro 3200ES, Micro 3200 MPS <i>OS/32 Version R08 Release 03</i>	
	Fortran VII O Version R06 Release 00 <i>NIST-90/1502</i>	3280 MPS <i>OS/32 Version R08 Release 03</i>	7/1/91	Full	3205, 3210, 3220, 3230, 3240, 3250, 3230XP, 3230MPS, 3260MPS, 3280E MPS; 8/32; Micro 3200CS, Micro 3200ES, Micro 3200 MPS <i>OS/32 Version R08 Release 03</i>	
Control Data Corporation	Fortran/VE 1 Version 1.7 Release 90325 <i>NIST-91/1432</i>	CYBER 180-995 <i>NOS/VE Version 1.5.3 Level 765</i>	3/1/92	Full	CYBER 180 Series; CYBER 2000 <i>NOS/VE Version 1.5.3 Level 765</i>	
	Fortran/VE 2 Version 2.5 Release 90325 <i>NIST-91/1433</i>	CYBER 180-995 <i>NOS/VE Version 1.5.3 Level 765</i>	3/1/92	Full	CYBER 180 Series; CYBER 2000 <i>NOS/VE Version 1.5.3 Level 765</i>	
	Fortran VE Version 1.3 Release 86220 Level 670 <i>NBS/ICST-87/345</i>	CYBER 830 <i>NOS/VE Version 1.2.1 L670</i>	5/1/91	Full	Series 170-815, 825, 835, 845, 180-810, 815, 825, 830, 835, 840, 845, 850, 855, 860, 990 <i>NOS/VE Version 1.2.1 Level 670</i>	
	Fortran Version 5.1 L642 <i>OIT/FSMC-86/3411</i>	CYBER 180-830 <i>NOS Version 2.4.3 L647</i>	5/1/91	Full	CYBER Series 70 (except 76) 170-700, 170-800, 6000, 180-800 <i>NOS Version 2.4.3 L647 NOS/BE Version 1.7 L650</i>	
Convex Computer Corporation	Convex Fortran Version 6.1 <i>NIST-91/1521</i>	C-240 <i>ConvexOS Version 9.0</i>	4/1/92	Full	Convex C-Series <i>Convex Unix Versions 8.1</i>	
Cray Research, Inc.	Cf77 Release 4.0.2 <i>NIST-91/1101</i>	Cray X-MP Cray-2S 4/128 Cray Y-MP/832 <i>UNICOS Release 5.1</i> Cray X-MP/48 <i>COS Release 1.17 Rev 1</i>	2/1/92	Full	Cray X-MP EA and Y-MP series in X-mode; Cray 1 and X-MP series; Cray-2S series, Cray 2S series; Cray Y-MP series, Cray X-MP EA series <i>UNICOS Release 5.1</i> Cray 1 and X-MP <i>COS Release 1.17 Rev 1</i>	
Digital Equipment Corporation	VAX Fortran Version 5.0 <i>NBS/ICST-88/2821</i>	VAX 8800 <i>VMS Version 5.0</i>	7/1/91	Full	VAX, MicroVAX, VAXStation <i>VMS Version 5.0</i>	
	VAX Fortran/ ULTRIX Version 4.7 <i>NBS/ICST-88/2822</i>	VAX-11/785 <i>ULTRIX-32 Version 2.2</i>	7/1/91	Full	VAX, MicroVAX Series <i>Ultrix-32 Version 2.2</i> VAXStation System <i>Ultrix 32M Version 2.2</i>	

FORTRAN PROCESSORS, *Continued*

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
Encore Computer Corporation	Fortran 77 Version 2.1 NIST-91/1551	Multimax 320 UMAX V Version 2.4 MACH Version 1.0 UMAX 4.3 Version R4.1	4/1/92	Full	Multimax 310, 510, 520 UMAX V Release R2.2 MACH Version 1.0 UMAX 4.3 Version R4.1	
	Parallel Fortran Plus Version 1.0 NIST-91/1552	Encore 91 UMAX V Version 3.0	4/1/92	Full		
	Fortran 77+ Version 5.0C NIST-91/1541	Concept 32/97 MPX-32 Version 3.5u01	4/1/92	Full	Concept 32/67, 32/2040, 32/2030, 32/2050 MPX-32 Version 3.5u01	
	GCF Version 2.0 NIST-91/1542	Concept 32/97 MPX-32 Version 3.5u01	4/1/92	Full	Concept 32/67, 32/2040, 32/2030, 32/2050 MPX-32 Version 3.5u01	
Fujitsu America, Inc.	Fortran 77-M Version 10 Level 31 NBS/ICST-88/3561	Amdahl 5860 IBM MVS/SP Version 2.2.0	12/1/91	Full	Amdahl 580; Amdahl Vector Processor IBM MVS/SP Version 2	
	Fortran 77/VP-M Version 10 Level 30 NBS/ICST-88/3562	Amdahl 1200E IBM MVS/SP Version 2.2.0	12/1/91	Full	Amdahl Vector Processor; Amdahl 580 IBM MVS/SP Version 2	
	Fortran 77 Version 10 Level 31 NBS/ICST-88/3563	Amdahl 1200E VSP Version 10	12/1/91	Full	FACOM M FACOM OS IV/F4 MSP Edition 20 FACOM VP; Amdahl Vector Processor VSP Version 19	
	Fortran 77/VP Version 10 Level 30 NBS/ICST-88/3564	Amdahl 1200E, FACOM VP VSP Version 10	12/1/91	Full	FACOM M FACOM OS IV/F4 MSP Edition 20 FACOM VP; Amdahl Vector Processor VSP Version 10	
	UTS Fortran 77 Version 10 Level 31 NBS/ICST-88/3565	Amdahl 5890 UTS Version 1.2	12/1/91	Full	Amdahl 580 UTS Version 2.0 FACOM M UTS/M Version 10 FACOM S3000 UTS/S Version 10	
	UTS Fortran77 EX Version 10 Level 10 NIST-91/1381	Fujitsu M760 UTS/M Version 22 Level 10	2/1/92	Full	Fujitsu M780 UTS/M Version 22 Level 10	
	UTS Fortran77 EX Version 10 Level 10 NIST-91/1382	Amdahl 5990 Amdahl UTS Version 2 Release 1	2/1/92	Full	Amdahl 5990 Amdahl UTS Version 2	
	OSIV/MSP Fortran77 Version 11 Level 10 NIST-91/1383	Fujitsu VP100E OSIV/F4 MSP Edition 20	2/1/92	Full	Fujitsu M780; M760 OSIV/F4 MSP Edition 20	

FORTRAN PROCESSORS, *Continued*

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
	OSIV/MSP Fortran77 Version 11 Level 10 <i>NIST-91/1384</i>	Amdahl 5990 <i>IBM MVS/SP Version 3 Release 1.3</i>	2/1/92	Full	IBM 3090/200E <i>MVS/SP Version 2 Release 2.3</i>	
Harris Corporation	hf77 Version 5.0 <i>NIST-90/1192</i>	Nighthawk 1000/3000 <i>CX/UX Version 5.0</i>	5/1/91	Full	NH3800 <i>CX/UX Version 5.0</i>	
Hewlett-Packard Company	HP 9000 S300 Fortran 77 Version A.07.40 <i>NIST-91/1021</i>	HP9000 Model 345 <i>HP-UX Version A.07.05</i>	1/1/92	Full	HP9000, Models 370, 360, 375, 332, 350; 425T, 433S <i>HP-UX Version A.07.05</i>	
	HP 9000 S700 Fortran 77 Version A.08.01 <i>NIST-91/1022</i>	HP9000 Model 840 <i>HP-UX Version A.07.00</i>	1/1/92	Full		
	HP 9000 S700 Fortran 77 Version A.08.10 <i>NIST-91/1023</i>	HP9000 Model 729 <i>HP-UX Version A.08.00</i>	1/1/92	Full		
	HP Fortran 77/V Version A.02.05 <i>NIST-91/1025</i>	HP3000 Model 68 <i>MPE/V Version G.03.09</i>	1/1/92	Full	HP3000, Models MICRO 3000, MICRO 3000XE, 52, 58, 70, 72 <i>MPE/V Version G.03.09</i>	
	HP Fortran 77/XL Version A.03.11 <i>NIST-91/1024</i>	HP3000 Model 930 <i>MPE XL Version A.05.10</i>	1/1/92	Full	HP3000, Models 922, 925, 930, 932, 935, 949, 950, 955, 960, 980, 980/100 <i>MPE XL Version A.02.20</i>	
IBM Corporation	IBM Fortran/2 Version 1.02 <i>NBS/ICST-88/3420</i>	IBM PS/2 Model 80 <i>OS/2 Version 1.00 DOS Version 4.00</i>	10/1/91	Full		
	VS Fortran Version 2 Release 5 <i>NIST-90/1821</i>	IBM 4381 <i>VM/SP HPO Version 1 Release 5</i>	8/1/91	Full	IBM S/370, 30xx, 43xx, 93xx <i>VM/SP Version 1, Release 4 VM/SP Version 1, Release 1</i>	
	VS Fortran Version 2 Release 5 <i>NIST-90/1822</i>	IBM S/370 3090 <i>MVS/SP Version 3 Release 1</i>	8/1/91	Full	IBM S/370, 30xx, 43xx, 93xx <i>MVS/SP Version 1, Release 3 MVS/SP Version 2, Release 1</i>	
	VS Fortran Version 2 Release 5 <i>NIST-90/1823</i>	IBM 3090 <i>ALX/370 Version 1 Release 2</i>	8/1/91	Full	IBM S/370, 30xx, 43xx, 93xx <i>ALX/370 Version 1, Release 2</i>	
	IBM RT PC Fortran 77 Version 01.02.0000 <i>OIT/FSMC-86/3780</i>	IBM RT PC <i>IBM RT PC ALX Version 01.02.0000</i>	8/1/91	Full		
	IBM RT PC VS Fortran Version 1.1.0 <i>NIST-89/1441</i>	IBM RT PC <i>IBM RT PC ALX Version 2.2.1</i>	5/1/91	Full		
	XL Fortran /6000 & XL Fortran Run Time Env. /6000 Version 2 Release 1 <i>NIST-91/1341</i>	IBM RISC System/6000 Model 530 <i>ALX V3 for RISC System/6000 Version 3 Release 1</i>	3/1/92	Full	IBM RISC System/6000 Models 320, 520, 540, 550, 730, 930 <i>ALX V3 for RISC System/6000 Version 3 Release 1</i>	
	VS Fortran Version 1 Release 1 <i>NIST-90/2121</i>	IBM PS/2 <i>IBM ALX Version 1 Release 1</i>	10/1/91	Full		Yes

FORTRAN PROCESSORS, *Continued*

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
Language Systems Corporation	Language Systems Fortran Version 2.1 <i>NIST-90/1921</i>	Apple Macintosh IIcx <i>Macintosh OS Version 6.0.5</i>	9/1/91	Full	Apple Macintosh IIcx <i>Macintosh OS Version 6.0.5</i>	
Microsoft Corporation	Microsoft Fortran Version 5.0 <i>NIST-89/1661</i>	COMPAQ DESKPRO 386, 80387 math co-processor <i>MS-DOS Version 3.3</i>	7/1/91	Full		
	Microsoft Fortran Version 5.0 <i>NIST-89/1662</i>	COMPAQ DESKPRO 386, 80387 math co-processor <i>OS/2 Version 1.1</i>	7/1/91	Full		
	Microsoft Fortran Version 5.0 <i>NIST-89/1663</i>	IBM PS/2 Model 50, 80387 math co-processor <i>MS-DOS Version 3.3</i>	7/1/91	Full		
	Microsoft Fortran Version 5.0 <i>NIST-89/1664</i>	IBM PS/2 Model 50, 80287 math co-processor <i>OS/2 Version 1.1</i>	7/1/91	Full		
	Microsoft Fortran Version 5.0 <i>NIST-89/1665</i>	IBM PS/2 Model 60, 80387 math co-processor <i>MS-DOS Version 3.3</i>	7/1/91	Full		
	Microsoft Fortran Version 5.0 <i>NIST-89/1666</i>	IBM PS/2 Model 60, 80387 math co-processor <i>OS/2 Version 1.1</i>	7/1/91	Full		
	Microsoft Fortran Version 5.0 <i>NIST-89/1667</i>	IBM PS/2 Model 80, 80387 math co-processor <i>MS-DOS Version 3.3</i>	7/1/91	Full		
	Microsoft Fortran Version 5.0 <i>NIST-89/1668</i>	IBM PS/2 Model 80, 80387 math co-processor <i>OS/2 Version 1.1</i>	7/1/91	Full		
Microsoft Corporation	Microsoft Fortran Version 5.0 <i>NIST-89/1669</i>	ZENITH 248, 80287 math co-processor <i>MS-DOS Version 3.3</i>	7/1/91	Full		
MIPS Computer Systems, Inc.	MIPS Fortran Version 2.20 <i>NIST-91/1221</i>	MIPS M/2000 <i>RISC/os Version 4.51</i>	1/1/92	Full	M/500, M/800, M/1000, M/120, RC3230, RS3230, RC3260, RC3260 (Genesis 25), RC3240, RC2030, RS2030, RC6280, RC6260 <i>RISC/os Version 4.51</i>	
Modular Computer Systems	MODCOMP Fortran 77/16 Release B.2 <i>NIST-89/1963</i>	MODCOMP 7860 <i>MAX IV Release K.0</i>	9/1/91	Full	MODCOMP 32/85, 32/87, 9230, 9250 <i>MAX IV Release K.0</i>	
	MODCOMP Fortran 77/32 Release B.2 <i>NIST-89/1962</i>	MODCOMP 32/87 <i>MAX 32 Release D.0</i>	9/1/91	Full	MODCOMP 32/85, 9230, 9250 <i>MAX 32 Release D.0</i>	
	MODCOMP GLS-F77 Release A.2 <i>NIST-89/1961</i>	MODCOMP 9730 <i>REAL/IX Release A.0</i>	9/1/91	Full	MODCOMP 9720, 9740 <i>REAL/IX Release A.0</i>	

FORTRAN PROCESSORS, *Continued*

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
Multiflow Computer, Inc.	Trace Scheduling (tm) Fortran Version 2.1.3 <i>NBS/ICST-88/3981</i>	TRACE 7/300, 14/300 28/300 <i>TRACE/UNIX Version 4.1.1</i>	4/1/91	Full		
NKR Research, Inc.	NKR Fortran Version 3.2.0 <i>NIST-90/1881</i>	Motorola Delta Series 3000, MC68030 w/MC68881 co- processor <i>UNIX System V/68 Version 890128 Release R3V5</i>	9/1/91	Full		
Prime Computer, Inc.	Fortran 77 Release T3.0-23.0 <i>NIST-91/1721</i>	Prime Model 9955 <i>Primos Revision 23.0</i>	5/1/92	Full	2350, 2450, 2355, 4050, 4150, 4450, 6150, 6350, 6550, 2550, 2655, 2755, 9650, 9655, 9750, 9755, 9950, 9955-II, 5310, 5320, 5330, 5340 w/32IX- mode arch.; 2350, 2450, 2355, 4050, 4150, 4450, 6150, 6350, 6550, 2250, 2550, 2655, 2755, 9650, 9655, 9750, 9755, 9950, 9955-II, 750, 850, 5310, 5320, 5330, 5340 w/32I-mode arch. 2350, 2450, 2355, 4050, 4150, 4450, 6150, 6350, 6550, 2250, 2550, 2655, 2755, 9650, 9655, 9750, 9755, 9950, 9955-II, 750, 850, 5310, 5320, 5330, 5340 w/64V-mode arch. <i>PRIMOS Revision 23.1</i>	
Pyramid Technology Corporation	Fortran Release 5.0 <i>NIST-90/1342</i>	MIS/2-2 <i>OSx Release 5.0</i>	7/1/91	Full		
Sequent Computer Systems, Inc.	ptx/Fortran Version 1.8 <i>NIST-90/2182</i>	Sequent Symmetry S16 <i>Dynix/ptx Version 1.2</i>	9/1/91	Full	Sequent Symmetry S3, S16, S27, S81 <i>Dynix/ptx Version 1.1, 1.2</i>	
Siemens Nixdorf Informations- systeme AG	FOR1 V2.1A <i>GMD/VAL-91-003</i>	Siemens 7.540-W <i>BS2000 V9.54 Siemens 7.592-I BS2000 V10.0A</i>	2/1/92	Full		
	Sinix Fortran V1.1A, V1.2A, V1.2B <i>GMD/VAL-91-009</i>	MX500-F <i>Sinix-F V5.21 MX300-H Sinix-H 5.23 MX300-L Sinix-L V5.4 MX200-K Sinix-ODT V1.5</i>	2/1/92	Full		
Silicon Graphics, Inc.	Fortran 4D77 Release S4-FTN 1-4.0 <i>NIST-91/1201</i>	IRIS 4D/25 <i>IRIX 4D1-4.0</i>	3/1/92	Full	Personal IRIS 4D/20, 4D/25, 4D/35, 4D/70, Power Series <i>IRIX 4D1-4.0</i>	

FORTRAN PROCESSORS, *Continued*

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
Sun Microsystems, Inc.	Sun Fortran (FOR-1.4-4-3-5) Version 1 Release 4 <i>NIST-91/1301</i>	SUN-3/80 w/MC 68882 <i>SUNOS (SM3-07) Version 4 Release 1</i>	3/1/92	Full	SUN-3/470, SUN-3/480; SUN-3/60, SUN-3/180, SUN 3/260 w/MC 68882 <i>SUNOS (SM3-07) Version 4 Release 1</i>	
	Sun Fortran (FOR-1.4-4-4-5) Version 1 Release 4 <i>NIST-91/1302</i>	SPARCstation 2 (SUN- 4/75) w/FPU (TI TMS390C602A) <i>SUNOS (SS2-07) Version 4 Release 1</i>	3/1/92	Full	SPARCserver 2 (SUN- 4/75X) w/FPU (TI TMS390C602A) <i>SUNOS (SS2-07) Version 4 Release 1</i>	
	Sun Fortran (FOR-1.4-4-4-5) Version 1 Release 4 <i>NIST-91/1303</i>	SPARCserver 330 (SUN- 4/330) w/FPU2 (TI 8847) <i>SUNOS (SS2-07) Version 4 Release 1</i>	3/1/92	Full	SPARCserver 470 (SUN- 4/470) w/FPU2 (TI 8847) <i>SUNOS (SS2-07) Version 4 Release 1</i>	
	Sun Fortran (FOR-1.4-4-4-5) Version 1 Release 4 <i>NIST-91/1304</i>	SPARCserver 490 (SUN- 4/490) w/FPU2 (TI 8847) <i>SUNOS (SS1-07) Version 4 Release 1</i>	3/1/92	Full		
	Sun Fortran (FOR-1.4-4-4-5) Version 1 Release 4 <i>NIST-91/1305</i>	SPARCstation IPC (SUN- 4/40) w/FPU (WEITEK 3172) <i>SUNOS (SS2-07) Version 4 Release 1</i>	3/1/92	Full	SPARCstation SLC (SUN- 4/20); SPARCstation 1+ (SUN-4/65) w/FPU (WEITEK 3172) <i>SUNOS (SS2-07) Version 4 Release 1</i>	
Tandem Computers, Inc.	Fortran for NonStop Systems Version T9252C20 <i>NIST-89/1301</i>	NonStop VLX <i>Guardian 90 Version T9050C20</i>	4/1/91	Full	NonStop II, TXP, CLX, EXP 10, EXP 25, CLX-E <i>Guardian 90 Version T9050C20</i>	
	Fortran (f77) Version 1.0 Release A01 <i>NIST-90/1602</i>	Integrity S2 <i>Non Stop-UX Version 1.0</i>	7/1/91	Full		
Unisys Corporation	NPE Fortran (UFIN) Version 3R1B Release SB3R4 <i>NIST-89/1722</i>	1100/90 <i>1100 OS EXEC Version 41R5 Release SB3R4</i>	8/1/91	Full	2200 <i>1100 OS Exec 41R6 Release SB3R4</i>	
	A Series Fortran77 Version 3.8 <i>NIST-89/2302</i>	Unisys A5 <i>MCP/AS MARK 3.8</i>	10/1/91	Full	Unisys Micro A, A1, A2, A3, A4, A5, A6, A9, A10, A12, A15, A17 <i>MCP/AS, MARK 3.8</i>	
	SVS Fortran77 Version 2.8 <i>NIST-91/1242</i>	U6000/70 <i>Unix System V Release 3.2</i>	1/1/92	Full	U6000/10 /31 /51 /60 /80 /WS <i>Unix System V Release 3.2</i>	
University of Salford	FTN77I (V-mode) Version 232b <i>NIST/NCC-90/944</i>	Prime 9955 Model I <i>PRIMOS Revision 21.0.5q</i>	9/1/91	Full	Prime 50-series w/I-mode instruction set <i>Primos Revision 19.0 to 22.1</i>	
	FTN77 (V-mode) Version 232b <i>NCST/NCC-90/943</i>	Prime 9955 Model I <i>PRIMOS Revision 21.0.5q</i>	9/1/91	Full	Prime 50-series w/V-mode instruction set <i>Primos Revision 19.0 to 22.1</i>	
	FTN77/486 Version 2.42 <i>NIST/NCC-90/942</i>	Olivetti CP486/25 <i>MS-DOS Version 4.01</i>	9/1/91	Full	HPVectra/486 Research Machines VX-486	

FORTRAN PROCESSORS, *Continued*

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
	FTN77/386 Version 2.42 NIST/NCC-90/941	Olivetti MX380/XPI w/80387 coprocessor MS-DOS Version 3.30	9/1/91	Full	Compaq 386S w/80387SX Compaq Deskpro 386/16, 386/20, 386/25; CompuAdd 386/20, 386/25; Dell 310, 325 w/A02 BIOS, G03 m/board; HP Vectra RS/20; IBM PS/2 Models 80, 70; NEC ProSpeed 386 Portable; Northgate Elegance 386 20MHz; Tandon 386 20 MHz; Tandon 386SX; Tosiba TS100, TS200, 3200SX; Walters 386/20 MS-DOS version 3.30, 4.01	
Wang Laboratories, Inc.	VS Fortran Version 02.11.90 NIST-90/1161	VS 8000 VS OS Version 7.30.00	4/1/91	Full	VS 5, 5E, 6, 6E, 15, 25, 45, 65, 75E, 80, 90, 100, 300, 5000, 7000, 10000 VS OS Version 7.30	
	MS PC Fortran Version 5.0 NIST-90/1162	PC 280 MS DOS Version 3.20	4/1/91	Full	PC 240, 250, 287, 350, 380, 381, 382 MS DOS Version 3.20	

4. Ada PROCESSORS

All Ada Validation Certificates issued for validations completed with ACVC Version 1.10 expired on December 1, 1990. ACVC 1.11 is the official validation test suite and will remain in effect until at least 1 January 1992. The certificates associated with 1.11 will remain current until at least 1 March 1993. Prior to the release of the Ada 9X suite (ACVC 2.0), there may be a transition suite -- tentatively designated 1.11A -- which will be similar to the proposed ACVC 1.12 except tests that conflict with 9X will be removed.

Key: * = Validated through Registration, base system above)

#YYMMDDFX.XXNNN = Certificate Number: YYMMDD = date on-site testing was completed;
F = Ada Validation Facility;
X.XX = ACVC Version;
NNN = sequence number assigned by AVO

VENDOR, COMPILER & EXPIRATION DATE	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
**Completed on-site testing AETECH IntegrAda, Version 5.1.0 POSIX	Unisys PW/2 386 under SCO Unix 3.2	Same as Host
**Completed on-site testing AETECH IntegrAda 386, Version 5.1.0 (#901120W1.11087)	Northgate 386/25 under Phar Lap/DOS 3.3	Northgate 386/25 under MS Dos 3.3
*Validated by Registration AETECH, Inc. IntegrAda 386 5.1.0 (BASE #901120W1.11087)	Any Computer System Comprising: cpu: Intel 80386, fpu: optional, memory: 4 MByte RAM, disk: hard drive (under Phar Lap/DOS 3.3)	Any Computer System Comprising: cpu: Intel 80386, fpu: optional, memory: 4 MByte RAM, disk: 40 MByte 40 MByte hard drive (under MS DOS 3.3)
AETECH, Inc. IntegrAda 5.1.0 POSIX (#901129W1.11086)	Unisys PW/2 386 (under SCO Unix 3.2)	Same as Host
*Validated by Registration AETECH, Inc. IntegrAda Posix 5.1.0 (BASE #901129W1.11086)	Any Computer System Comprising: cpu: Intel 80386, fpu: optional, memory: 4 MByte RAM, disk: 60 MByte hard drive (under SCO Unix 3.2)	Same as Host
Aitech Defense Systems, Inc. AI-ADA/88K Version 2.4 (#900930W1.11030)	VAXstation 3100 Cluster (under VMS 5.3)	Tadpole TP880V (88100-based VME board) (bare machine)
*Validated by Registration Aitech Defense Systems, Inc. AI-ADA/88K, Version 2.4 (BASE #900930W1.11030)	All DEC MicroVAX, VAXstation, VAXserver, VAX-11, VAX 8xxx & VAX 6xxx series (under VMS versions 5.0, 5.1, 5.2 & 5.3, as supported)	Tadpole TP880V (88100-based VME board) & Motorola MVME181 (88100-based VME board) (bare machines)
Alliant Computer Systems Corporation Alliant FX/Ada-2800 Compiler, Version 1.0 (#901218W1.11105)	Alliant FX/2800 (under Concentrix Release 2.0)	Same as Host
Alliant Computer Systems Corporation Alliant FX/Ada Compiler, Version 2.3 (#901218W1.11106)	Alliant FX/80 (under Concentrix Release 5.7)	Same as Host

Ada PROCESSORS *Continued*

VENDOR, COMPILER & EXPIRATION DATE	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Alsys AlsyCOMP 042, Version 5.3 (#900627N1.11013)	IBM 9370 Model 90 (under AIX/370 Version 1.2)	Same as Host
Alsys AlsyCOMP 026, Version 1.82 (#900814I1.11040)	Sun-3/60 (under SunOS, Version 4.0.3)	Same as Host
Alsys AlsyCOMP 025, Version 1.83 (#900814I1.11041)	MIPS M/120-5 (under RISC/os, Version 4.0)	Same as Host
Alsys AlsyCOMP 046, Version 5.3 (#901022A1.11043)	Sony NEWS NWS-1850 (under NEWS-OS 3.3)	Same as Host
Alsys AlsyCOMP 004, Version 5.3 (#901022A1.11044)	Apollo DN4000 (under Domain/OS SR10.2)	Same as Host
Alsys AlsyCOMP 050, Version 5.3 (#901022A1.11045)	Bull DPX/2 320 (under B.O.S. 02.00.05)	Same as Host
Alsys AlsyCOMP 002, Version 5.3 (#901022A1.11046)	HP 9000s350 (under HP-UX 6.5)	Same as Host
Alsys AlsyCOMP 005, Version 5.3 (#901022A1.11047)	Sun-3/260 (under SunOS 3.2)	Same as Host
Alsys AlsyCOMP 035, Version 5.3 (#901022A1.11048)	CETIA Unigraph 6000 (under Unigraph/X 3.1)	Same as Host
Alsys ALSYS COMP C16-38 6 (#901102W1.11055)	Compaq Deskpro 386 (under MS-DOS 3.30, Phar Lap 2.0)	Same as Host
Alsys ALSYS COMP C16-38 6 (#901102W1.11056)	CompuAdd 320 (under MS-DOS 3.30, Phar Lap 2.0)	Same as Host
*Validated by Registration Alsys AlsyCOMP 016, Version 5.1 (BASE #901102W1.11056)	HP Vectra RS/20, RS/20C, RS/25 & RS/25C; AST Premium 386; and Unisys 386 & Desktop III (under MS-DOS 3.30, Phar Lap 2.0)	Any Host
Alsys ALSYS COMP C16-38 6 (#901102W1.11057)	ALR Power Veisa 486 (under MS-DOS 3.30, Phar Lap 2.0)	Same as Host
Alsys ALSYS COMP C03-AD A (#901102W1.11058)	HP Vectra RS/25C (under MS-DOS 3.30)	Same as Host
Alsys ALSYS COMP C03-AD A (#901102W1.11059)	Zenith Z-248 Model 50 (under MS-DOS 3.30)	Same as Host

Ada PROCESSORS *Continued*

VENDOR, COMPILER & EXPIRATION DATE	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration Alsys AlsyCOMP_003, Version 5.1 (BASE #901102W1.11059)	HP Vectra ES/12; and IBM PC/AT (all models) (under MS-DOS 3.30)	Any Host
*Validated by Registration Alsys AlsyCOMP_003, Version 5.1 (BASE #901102W1.11059)	ICS SB286SC/12 (under MS-DOS 3.30)	Same as Host
Alsys Alsycomp_037, Version 5.2 (#901114N1.11065)	INMOS T800 transputer on a B403 TRAM (bare) with an INMOS B008 Communications link implemented in an IBM PC/AT (under MS-DOS 3.1 and INMOS Iserver V1.3)	INMOS T800 transputer on a B403 TRAM (bare) using an IBM PC/AT under MS-DOS 3.1 running INMOS Iserver 1.3 for file-server support via an INMOS B008 board link
*Validated by Registration Alsys AlsyCOMP_037, V5.3 (BASE #901114N1.11065)	INMOS T800 transputer on a B403 TRAM (bare) with an INMOS B008 Communications link implemented in an IBM PC/AT (under MS-DOS 3.1 and V1.3)	INMOS T800 transputer on a B405 TRAM (bare) using an IBM PC/AT under MS-DOS 3.1 running INMOS Iserver 1.3 for file-server support via an INMOS B008 board link; INMOS Iserver INMOS T425 transputer on a B403 TRAM (bare) using an IBM PC/AT under MS-DOS 3.1 running INMOS Iserver 1.3 for file-server support via an INMOS B008 board link
Alsys AlsyCOMP_012, Version 5.3 (#901116A1.11066)	HP 9000s350 (under HP-UX 6.5)	Motorola MVME101 (68000) (bare machine, using ARTK Version 5.3)
Alsys AlsyCOMP_036, Version 5.3 (#901116A1.11067)	Apollo DN4000 (under Domain/OS SR10.2)	Motorola MVME147-1 (68030/68882) (bare machine, using ARTK Version 5.3)
Alsys AlsyCOMP_015, Version 5.3 (#901116A1.11068)	Sun 3/260 (under SunOS 3.2)	Motorola MVME121 (68010) (bare machine, using ARTK Version 5.3)
Alsys Alsycomp_017, Version 5.2 (#901118N1.11064)	MicroVAX II (under VMS V5.3)	INMOS T425 transputer on a B403 TRAM (bare) using the Host running INMOS Iserver 1.3 for file-server support via a CAPLIN QT0 board link
*Validated by Registration Alsys AlsyCOMP_017, V5.3 (BASE #901118N1.11064)	MicroVAX II (under VMS V5.3)	INMOS T425 transputer on a B403 TRAM (bare) using the Host running INMOS Iserver 1.3 for file-server support via a CAPLIN QT0 board link; INMOS T800 transputer on a B405 TRAM (bare) using the Host running INMOS Iserver 1.3 for file-server support via a CAPLIN QT0 board link
Alsys AlsyCOMP_018 Version 5.2 (#901120A1.11070)	MicroVAX 3100 (under VMS 5.3)	Same as Host
Alsys AlsyCOMP_006, Version 5.3 (#901125N1.11071)	IBM 9370 Model 90 (under VM/IS CMS release 5.1)	Same as Host

Ada PROCESSORS *Continued*

VENDOR, COMPILER & EXPIRATION DATE	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Alsys AlsyCOMP 023, Version 5.3 ⁻ (#901125N1.11072)	IBM 370 3084Q (under MVS/XA release 3.2)	Same as Host
Alsys AlsyCOMP 011, Version 5.3 ⁻ (#901127A1.11069)	VAX 6210 (under VMS 5.2)	Motorola MVME135-1 (68020/68881) (bare machine, using ARTK Version 5.3)
Alsys AlsyCOMP 053, Version 1.8 ² (#900509I1.11009)	VAX 8530 (under VMS, Version 5.1)	Same as Host
Alsys AlsyCOMP 034, Version 5.1 ⁻ (#901221W1.11103)	Multitech 1100 (under SCO Unix 3.2)	Same as Host
Alsys AlsyCOMP 043, Version 5.3 ⁻ (#901221W1.11104)	Apple Macintosh IIcx (under Macintosh System Software 6.0.5)	Same as Host
Alsys AlsyCOMP 034 Version 5.1 ⁻ (#910129W1.11113)	IBM PS/2 Model 80 (under LynxOS Version 2.0 + Threads Release 11)	Same as Host
Concurrent Computer Corporation C3 Ada Version 1.1v (#901130W1.11107)	Concurrent Computer Corporation 6650 with Super Lightning Floating Point (under RTU Version 5.0C)	Same as Host
*Validated by Registration Concurrent Computer Corporation C3 Ada, Version 1.1v (BASE #901130W1.11107)	Concurrent Computer Corporation Series 6000 with Super Lightning Floating Point, and Series 5000 with Lightning Floating Point (all models) (under RTU Version 5.0A, 5.0B & 5.0C)	Any Host
Concurrent Computer Corporation C3Ada, Version 0.5 (#900427I1.11008)	Concurrent Computer Corporation 8400 (MIPS R3000/3010) (under RTU Version 5.1)	Same as Host
*Validated by Registration Concurrent Computer Corporation C3Ada, Version 0.5 (BASE #900427I1.11008)	Concurrent Computer Corporation 8500 (MIPS R3000/R3010) (under RTU Version 5.1)	Same as Host
Concurrent Computer Corporation C3 Ada Version R03-00V (#901130W1.11108)	Concurrent Computer Corporation 3280MPS (under OS/32 Version R08-03.2)	Same as Host
*Validated by Registration Concurrent Computer Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108)	Concurrent Computer Corporation Series 3200: 3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230XP, 3250XP, 3230MPS, 3260MPS, Micro4, and Micro5 (under OS/32 Versions R08-03, R08-03.1 & R08-03.2)	Any Host

Ada PROCESSORS *Continued*

VENDOR, COMPILER & EXPIRATION DATE	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Concurrent Computer Corporation C3 Ada Version 1.0v (#901130W1.11109)	Concurrent Computer Corporation 8400 (MIPS R3000/3010) (under RTU Version 5.1)	Same as Host
*Validated by Registration Concurrent Computer Corporation C3 Ada, Version 1.0v (BASE #901130W1.11109)	Concurrent Computer Corporation Series 8000 (all models) (under RTU Versions 5.1, 5.1A & 5.1B)	Any Host
Concurrent Computer Corporation C3 Ada Version 1.1v (#901130W1.11110)	Concurrent Computer Corporation 6650 with MC68882 Floating Point (under RTU Version 5.0C)	Same as Host
*Validated by Registration Concurrent Computer Corporation C3 Ada, Version 1.1v (BASE #901130W1.11110)	Concurrent Computer Corporation Series 6000 with an MC68882 fpu, and Series 5000 with an MC68881 fpu (all models) (under RTU Versions 5.0A, 5.0B & 5.0C)	Any Host
CONVEX Computer Corporation CONVEX Ada, Version 2.0 (#900910W1.11027)	CONVEX C220 (under ConvexOS 8.1)	Same as Host
*Validated by Registration CONVEX Computer Corporation CONVEX Ada, Version 2.0 (BASE #900910W1.11027)	CONVEX C120, C201, C202, C210, C220, C230, C240, C210i, C220i & C230i (under ConvexOS, Versions 8.1 and 9.0)	Any Host
DDC-I International A/S DACS VAX/VMS Native Ada Compiler System, Version 4.6 (#901129S1.11050)	VAX 8530 (under VMS Version 5.3)	Same as Host
DDC-I International A/S DACS VAX/VMS to 68020 Bare Cross Compiler System, Version 4.6 (#901129S1.11051)	MicroVAX 3100 (under VMS Version 5.3)	Motorola MVME133 board (68020/68881) (bare machine)
DDC International A/S DACS VAX/VMS to 80386 PM Bare Ada Cross Compiler System, Version 4.6 (#901129S1.11074)	VAX 8530 (under VMS Version 5.3)	Intel iSBC 386/21 (bare machine)
DDC International A/S DACS 80386 UNIX V Ada Compiler System, Version 4.6 (#901129S1.11075)	ICL DRS300 (under DRS/NX, Version 3.2 (UNIX System V/386 release 3.2))	Same as Host
DDC International A/S DACS Sun3/SunOS Native Ada Compiler System, Version 4.6 (#901129S1.11076)	Sun-3/60 (under SunOS, Version 4.0_Export)	Same as Host

Ada PROCESSORS *Continued*

VENDOR, COMPILER & EXPIRATION DATE	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
DDC International A/S DACS VAX/VMS to 80186 Bare Ada Cross Compiler System with Rate Monotonic Scheduling, Version 4.6 (#901129S1.11077)	VAX 8530 (under VMS Version 5.3)	Intel iSBC 186/03 (bare machine)
DDC International A/S DACS VAX/VMS to 80386 Bare Ada Cross Compiler System with Rate Monotonic Scheduling, Version 4.6 (#901129S1.11078)	VAX 8530 (under VMS Version 5.3)	Intel iSBC 386/21 (bare machine)
DDC International A/S DACS VAX/VMS to 80186 Bare Ada Cross Compiler System, Version 4.6 (#901129S1.11079)	VAX 8530 (under VMS Version 5.3)	Intel iSBC 186/03 (bare machine)
DDC International A/S DACS 80386 DMS/OS Ada Compiler System, Version 4.6 (#901129S1.11112)	IBM PS/2 Model 80-311 (under LynxOS 386/PS2, Version 2.0A)	Same as Host
Digital Equipment Corporation VAX Ada, Version 2.2 (#901109S1.11053)	VAX 8800 (under VMS Version 5.4)	Same as Host
*Validated by Registration Digital Equipment Corporation VAX Ada Version 2.2 (BASE #901109S1.11053)	VAX 4000 Model 300; VAX 6000 Model 200, 300 & 400 Series; VAX 8200, 8250, 8300, 8350, 8500, 8530, 8550, 8600, 8650, 8700, 8800, 8810, 8820, 8830, 8840, 8842, 8974 & 8978; VAX 9000-210, -410, -420, -430 & -440; VAX-11/730, /750, /780, /785; MicroVAX II, 2000, 3100, 3300, 3400, 3500, 3600, 3800 & 3900; VAXstation II, 2000, 3100 series, 3200, 3500, 3520 & 3540; VAXserver 3100, 3300, 3400, 3500, 3600, 3602, 3800, 3900; VAXserver 6000-310, 6000-410 & 6000 -420; Ratheon Military VAX Computer Model 860 (under VMS Version 5.4)	Any Host
Digital Equipment Corporation VAX Ada, Version 2.2 (#901109S1.11054)	VAX 8800 (under VMS Version 5.4)	MicroVAX II (under VAXELN Version 4.1, using VAXELN Ada Version 2.2)
*Validated by Registration Digital Equipment Corporation VAX Ada Version 2.2 (BASE #901109S1.11054)	VAX 6000 Model 200, 300 & 400 Series; VAX 8200, 8250, 8300, 8350, 8500, 8530, 8550, 8600, 8650, 8700, 8800, 8810, 8820, 8830, 8840, 8842, 8974 & 8978; VAX-11/730, /750, /780, /785; MicroVAX II 2000, 3100, 3300, 3400, 3500, 3600, 3800 & 3900; VAXstation II, 2000, 3100 series, 3200, 3500, 3520, 3540 & 8000; VAXserver 3100, 3300, 3400, 3500, 3600, 3602, 3800, 3900; VAXserver 6000-310, 6000 -410 & 6000-420; Ratheon Military VAX Computer Model 860 (under VMS Version 5.4)	VAX 6000 Model 200, 300 & 400 Series; VAX 8200, 8250, 8500, 8530, 8550, 8700, 8800 & 8810; VAX-11/730 & /750; MicroVAX II, 2000, 3100, 3300, 3400, 3500, 3600, 3800 & 3900; VAXstation 2000, 3100, 3150, 3200, 3500 & II/GPX; VAXserver 3100, 3300, 3400, 3500, 3600, 3602, 3800, 3900; VAXserver 6000 Models 210, 220, 310, 320, 410 & 420; Ratheon Military VAX Computer Models 810 & 860; Norden Systems: Mil Vax II, IVAX 620 & 630; VAX RTA; KA620 -BA, rtVAX 630, 1000, 3200, 3300, 3305, 3400, 3500, 3600, 3800, 8550, 8700, rtVAX 6000 Model 200, 300 & 400 Series & rtVAXstation 3100 Models 30 & 38 (under VAXELN Version 4.1, using VAXELN Ada Version 2.2)
E-Systems/ECI Division Tolerant Ada Development System, Version 6.0 (#901003W1.11039)	Tolerant Eternity (under TX, 5.4.0)	Same as Host

Ada PROCESSORS *Continued*

VENDOR, COMPILER & EXPIRATION DATE	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Encore Computer Corporation Parallel Ada Development System, Revision 1.0 (#910130W1.11114)	Encore 91 Series Model 91-0430 (under UMAX 3.0)	Same as Host
Encore Computer Corporation Parallel Ada Development System, Revision 1.0 (#910130W1.11115)	Encore 91 Series Model 91-0430 (under UMAX 3.0)	Encore 91 Series Model 91-0430 (under uMPX 1.0)
Harris Corporation, Computer Systems Division Harris Ada 5.1 (#900918W1.11028)	Harris NH-4400 (under CX/UX 5.1)	Same as Host
*Validated by Registration Harris Corporation, Computer Systems Division Harris Ada 5.1 (BASE #900918W1.11028)	Harris NH-4400 (under CX/UX 5.1, CX/RT 5.1, OR CX/SX 5.1)	Any Host
Harris Corporation, Computer Systems Division Harris Ada 5.1 (#900918W1.11029)	Harris NH-3800 (under CX/UX 5.1)	Same as Host
*Validated by Registration Harris Corporation, Computer Systems Division Harris Ada 5.1 (BASE #900918W1.11029)	Harris NH-1200, NH-3400 & NH-3800 (under CX/UX 5.1, CX/RT 5.1, OR CX/SX 5.1)	Any Host
Hewlett-Packard Company HP 9000 Series 300 Ada Compiler, Version 5.35 (#901022W1.11049)	HP 9000 Series 300 Model 370 (under HP-UX, Version A.07.00)	Same as Host
*Validated by Registration Hewlett-Packard Company HP 9000 Series 300 Ada Compiler, Version 5.35 (BASE #901022W1.11049)	HP 9000 Series 300 & 400, all models (under HP-UX, Version A.B7.03)	Any Host
IBM Canada, Ltd. AIX Ada/6000 Release 2, Preliminary Version (#901127W1.11085)	RISC System/6000 model 7013-530 (under AIX 3.1)	Same as Host
International Business Machines Corporation IBM Ada/370, Version 1.1.0 (#901128W1.11091)	IBM 3083 (under VM/SP HPO Release 5.0)	Same as Host
International Business Machines Corporation IBM Ada/370, Version 1.1.0 (#901128W1.11092)	IBM 4381 (under MVS/XA Release 3.8)	Same as Host
Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900909W1.11031)	Sun-3/260 (under SunOS, Version 4.1)	Same as Host
Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900909W1.11032)	Sun-4/110 (under SunOS, Version 4.1)	Same as Host

Ada PROCESSORS *Continued*

VENDOR, COMPILER & EXPIRATION DATE	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900909W1.11033)	DECstation 3100 (under Ultrix, Version 3.0)	Same as Host
Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900909W1.11034)	IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30)	Same as Host
Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900909W1.11035)	IBM PS/2 Model 30 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30)	Same as Host
Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900909W1.11036)	ITT XTRA/286 (with Floating-Point Co-Processor) (under MS-DOS 3.20/OS286)	Same as Host
Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900909W1.11037)	80 Data 386/25 (under 386/ix 1.0.6)	Same as Host
Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900909W1.11038)	Apple Macintosh II (under System 6.0.3)	Same as Host
Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#901108W1.11060)	Apple Macintosh II (under A/UX 2.0)	Same as Host
Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#901108W1.11061)	Stardent Titan P3 (under Stardent/Unix 3.0)	Same as Host
Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#901108W1.11062)	MicroVAX 3100 (under Ultrix 3.1)	Same as Host
Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#901108W1.11063)	MicroVAX II (under VMS 5.2)	Same as Host
MIPS Computer Systems MIPS ASAPP 3.0 (#900619W1.11010)	MIPS M/2000 (under RISC/os 4.50)	R3200-6 CPU board (bare machine)
MIPS Computer Systems MIPS Ada 3.0 (#900619W1.11011)	MIPS M/2000 (under RISC/os 4.50)	Same as Host
R.R. Software, Inc. Janus/Ada 2.2.0 Phar Lap/DOS (#901120W1.11088)	IBM PS/2 Model 80 (under Phar Lap/DOS 3.3)	IBM PS/2 Model 80 (under MS DOS 3.3)
*Validated by Registration R.R. Software, Inc. Janus/Ada 2.2.0 Phar Lap/DOS (BASE #901120W1.11088)	Any Computer System Comprising: cpu: Intel 80386, fpu: optional, memory: 4 MByte RAM, disk: 40 MByte hard drive (under Phar Lap/DOS 3.3)	Any Computer System Comprising: cpu: Intel 80386, fpu: optional, memory: 4 MByte RAM, disk: 40 MByte hard drive (under MS DOS 3.3)

Ada PROCESSORS *Continued*

VENDOR, COMPILER & EXPIRATION DATE	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
R.R. Software, Inc. Janus/Ada 2.2.0 Unix (#901129W1.11089)	Northgate 386/25 (under SCO Unix 3.2)	Same as Host
*Validated by Registration R.R. Software, Inc. Janus/Ada 2.2.0 UNIX (BASE #901129W1.11089)	Any Computer System Comprising: cpu: Intel 80386, fpu: optional, memory: 4 MByte RAM, disk: 60 MByte hard drive (under Phar Lap/DOS 3.3)	Same as Host
Rational M68020/OS-2000 Cross- Development Facility, Version 7 (#901116W1.11081)	R1000 Series 300 (under Rational Environment Version D_12_24_0)	Phillips PG2100 (OS-2000 Release 2.0)
Rational M68020/Unix Cross- Development Facility, Version 7 (#901116W1.11082)	R1000 Series 300 (under Rational Environment Version D_12_24_0)	HP 9000 Model 370MH (under HP-UX Version 7.0)
Rational M68020/Bare Cross- Development Facility, Version 7 (#901116W1.11083)	R1000 Series 300 (under Rational Environment Version D_12_24_0)	Motorola MVME135 (68020) (bare machine)
Rational Rational Environment, D_12_24_0 (#901116W1.11084)	R1000 Series 300 (under Rational Environment Version D_12_24_0)	Same as Host
SD-Scicon UK Ltd XD Ada MC68020, Version 1.2 (#901007N1.11042)	VAX Cluster (comprising VAXserver 3600, MicroVAX 2000 (2) & MicroVAX II machines) (under VMS Version 5.3)	Motorola MVME133XT board (MC68020) (bare machine)
SD-Scicon UK Ltd XD Ada MC68020, Version 1.2 (#901007N1.11042)	VAX Cluster (comprising VAXserver 3600, MicroVAX 2000 (2) & MicroVAX II machines) (under VMS Version 5.3)	Motorola MVME133XT board (MC68020) (bare machine)
*Validated by Registration SD-Scicon UK Ltd XD Ada MC68020 Version 1.2 (BASE #901007N1.11042)	VAX Cluster (comprising VAXserver 3600, MicroVAX 2000 (2) & MicroVAX II machines) (under VMS 5.3)	Motorola MVME135-1 board (MC68020) and Motorola MVME147S-1 board (MC68030) (bare machines)
SD-Scicon UK Ltd XD Ada MIL-STD-1750A, Version 1.2 (#901214N1.11080)	Local Area VAX Cluster (comprising VAXserver 3600, MicroVAX 2000 (2) & MicroVAX II machines) (under VMS 5.3)	Fairchild F9450 on a SBC-50 board (MIL-STD-1750A) (bare machine)
Siemens Nixdorf Informations- systeme AG SIEMENS NIXDORF BS2000 Ada Compiler V2.1 (#901119I1.11111)	SIEMENS NIXDORF 7.59OG (under BS2000 V9.5)	Same as Host
Silicon Graphics Computer Systems 4D ADA 3.0 (#900703W1.11014)	Iris-4D/380 (under IRIX Release 4D-3.3)	Same as Host
Silicon Graphics Computer Systems 4D ADA 3.0 (#900703W1.11015)	Iris-4D/220S (under IRIX Release 4D-3.3)	Same as Host
Silicon Graphics Computer Systems 4D ADA 3.0 (#900703W1.11016)	Iris-4D/25 (under IRIX Release 4D-3.3)	Same as Host

Ada PROCESSORS *Continued*

VENDOR, COMPILER & EXPIRATION DATE	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
SYSTEAM KG SYSTEAM Ada Compiler VAX/VMS, Version 1.82 (#900509I1.11009)	VAX 8530 (under VMS, Version 5.1)	Same as Host
Tartan, Inc. Tartan Ada VMS/C30, Version 4.0 (#901210I1.11121)	VAXstation 3100 (under VMS 5.2)	Texas Instruments TMS320C30 Application Board (bare machine)
Tartan, Inc. Tartan Ada Sun/960MC, Version 4.0 (#901210I1.11122)	Sun 3/60 (under SunOS Version 4.0.3)	Intel ICE960/25 on an Intel EXV80960MC board (bare machine)
Tartan, Inc. Tartan Ada Sun/Sun, Version 4.0 (#901211I1.11118)	Sun 3/60 (under SunOS Version 4.0.3)	Same as Host
Tartan, Inc. Tartan Ada VMS/960MC, Version 4.0 (#901212I1.11120)	VAXstation 3100 (under VMS 5.2)	Intel ICE960/25 on an Intel EXV80960MC board (bare machine)
Tartan, Inc. Tartan Ada Sun/C30 Version 4.0 (#901212I1.11123)	Sun 3/50 (under SunOS Version 4.0.3)	Texas Instruments TMS320C30 Application Board (bare machine)
Tartan, Inc. Tartan Ada VMS/1750A, Version 4.0 (#901213I1.11119)	VAXstation 3200 (under VMS 5.2)	Texas Instruments STL VHSIC 1750A (bare machine)
TeleSoft TeleGen2 Sun-3 Ada Development System, Version 4.01 (#900525I1.11012)	Sun-3/280 (under Sun UNIX 4.2, Release 4.0.3)	Same as Host
TeleSoft TeleGen2 Ada Host Development System, Version 4.1, for SPARCSystems (#901128W1.11090)	Sun-4/280 (under Sun UNIX 4.2, Release 4.1)	Same as Host
TeleSoft TeleGen2 Ada Cross Development System, Version 4.1, for VAX/VMS to 68K (#910121I1.11124)	MicroVAX 3800 (under VAX/VMS Version 5.2)	Motorola MVME133A-20 (MC68020) (bare machine)
TeleSoft Technology TeleGen2 Ada Cross Development System, Version 4.1, for VAX/VMS to MIPS (#910123I1.11125)	MicroVAX 3800 (under VAX/VMS Version 5.2)	Integrated Device IDT7RS301 System (R3000/3010) (bare machine)
TeleSoft TeleGen2 Ada Cross Development System, Version 4.1, for SUN-3 to 68K (#910125I1.11126)	Sun-3/480 (under Sun UNIX, Release 4.1)	Motorola MVME135-1 (MC68020) (bare machine)
Texas Instruments MIPS-Ada, Version 3.0 (#901030W1.11052)	MIPS M/2000 (under RISC/os 4.02)	TI DP32 R3000 Processor (bare machine, using TI DP32 RTE Version 1.0)
Verdix Corporation VAda-110-6161, Version 6.0.2 (#900228W1.11001)	DECstation 3100 (under ULTRIX 3.1)	Same as Host

Ada PROCESSORS *Continued*

VENDOR, COMPILER & EXPIRATION DATE	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration Verdix Corporation VAda-110-6161, Version 6.0.2 (BASE #900228W1.11001)	DECstation 2100, 5000; DECsystem 5400, 5810, 5820, 5830, 5840 (under ULTRIX 3.1)	Any Host
Verdix Corporation VAda-110-0202, Version 6.0 (#900228W1.11002)	VAXsystem 3100 (under ULTRIX 3.1)	Same as Host
Verdix Corporation VADS Sun3 SunOS, VAda-110-1313, Version 6.0 (#900510W1.11003)	Sun 3/280 (under SunOS 4.0)	Same as Host
Verdix Corporation VADS IBM PS/2 AIX = > Intel 80386, VAda-110-35315, Version 6.0 (#900510W1.11004)	IBM PS/2 Model 80 (under AIX 1.1)	Intel iSBC 386/12 (bare machine)
Verdix Corporation VADS IBM PS/2 AIX = > 68K, VAda-110-35125, Version 6.0 (#900510W1.11005)	IBM PS/2 Model 80 (under AIX 1.1)	Motorola MVME133A-20 (MC68020) (bare machine)
Verdix Corporation VADS Sun-4 SunOS, VAda-110-4040, Version 6.0 (#900510W1.11006)	Sun 4/280 (under SunOS 4.0)	Same as Host
*Validated by Registration Verdix Corporation VAda-110-4040, Version 6.0 (BASE #900510W1.11006)	Sun-4/20, /65, /110, /150 & /260; SPARCserver 310, 330, 370, 390, 470 & 490; SPARCstation SLC, 1, 1+, 2, 310, 330 & 370; and SPARCengine 1 VME (under SunOS 4.1)	Any Host
Verdix Corporation VADS Sun3 SunOS = > 68K, VAda-110-13125, Version 6.0 (#900510W1.11007)	Sun 3/280 (under SunOS 4.0)	Motorola MVME147 (MC68030) (bare machine)
Verdix Corporation VADS IBM RISC System/6000, AIX 3.1, VAda-110-7171, Version 6.0 (#900726W1.11017)	IBM RISC System/6000 Model 530 (under AIX 3.1)	Same as Host
Verdix Corporation VADS HP 9000/300, HP-UX 7.0, VAda-110-1515, Version 6.0 (#900726W1.11018)	HP 9000/350 (under HP-UX 7.0)	Same as Host
Verdix Corporation VADS Prime EXL/320, UNIX System V/386 3.2, VAda-110-3232, Version 6.0 (#900726W1.11019)	Prime EXL/320 (under UNIX System V/386 3.2)	Same as Host
Verdix Corporation VADS VAX/VMS 5.2, VAda-110-0303, Version 6.0 (#900726W1.11020)	MicroVAX 3100 (under VAX/VMS V5.2)	Same as Host
Verdix Corporation VADS VAX/VMS = > 68k, VMS 5.2, VAda-110-03125, Version 6.0 (#900726W1.11021)	MicroVAX 3100 (under VAX/VMS V5.2)	Motorola MVME147 (MC68030) (bare machine)

Ada PROCESSORS *Continued*

VENDOR, COMPILER & EXPIRATION DATE	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Verdix Corporation VADS VAX/VMS = > Intel 386, VMS 5.2, VAda-110-03315, Version 6.0 (#900726W1.11022)	MicroVAX 3100 (under VAX/VMS V5.2)	Intel iSBC 386/32 (bare machine)
Verdix Corporation VADS VAX/Ultrix = > 68k, Ultrix 3.1, VAda-110-02125, Version 6.0 (#900726W1.11023)	MicroVAX 3100 (under Ultrix 3.1)	Tektronix MV System, MV 68020 Support System, using TekDB Version 5.0.2 emulation software (bare machine simulation)
Verdix Corporation VADS DEC-RISK = > 68k, Ultrix 3.1, VAda-110-61125, Version 6.0 (#900726W1.11024)	DECstation 3100 (under Ultrix 3.1)	Motorola MVME147 (MC68030) (bare machine)
Verdix Corporation VADS IBM RISC System/6000 = > 68k, AIX 3.1, VAda-110-71125, Version 6.0 (#900726W1.11025)	IBM RISC System/6000 Model 530 (under AIX 3.1)	Motorola MVME147 (MC68030) (bare machine)
Verdix Corporation VADS IBM RISC System/6000 = > 386, AIX 3.1, VAda-110-71315, Version 6.0 (#900726W1.11026)	IBM RISC System/6000 Model 530 (under AIX 3.1)	Intel iSBC 386/116 (bare machine)
Verdix Corporation VADS VAX/VMS 5.2 = > Intel 80386/WEITEK 3167, VAda-110-03315, Version 6.0 (#901129W1.11094)	MicroVAX 3100 (under VMS Version 5.2)	Intel iSBC 386/116 using a WEITEK 3167 fpu (bare machine)
Verdix Corporation VADS UNIX System V/386, Rel. 4, VAda-110-3232, Version 6.0 (#901129W1.11095)	Intel 302 System (under UNIX System V/386, Release 4)	Same as Host
Verdix Corporation VADS Sequent Balance DYNIX V3.0, VAda-110-2323, Version 6.0 (#901129W1.11096)	Sequent Balance 8000 (under DYNIX Version 3.0)	Same as Host
Verdix Corporation VADS Sun4 = > 68K, Sun OS 4.0, VAda-110-40125, Version 6.0 (#901129W1.11097)	Sun-4/260 (under SunOS 4.0)	Motorola MVME147 (68030) (bare machine)
Verdix Corporation VADS Sun-4 = > Sun-3, Sun OS 4.0, VAda-110-4013, Version 6.0 (#901129W1.11098)	Sun-4/260 (under SunOS 4.0)	Sun-3/260 (under SunOS 4.0)
Verdix Corporation VADS AT&T 315 UNIX System V, Rel. 3.1, VAda-110-5151, Version 6.0 (#901129W1.11099)	AT&T 3B15 (under UNIX System V, Release 3.1)	Same as Host
Verdix Corporation VADS HP-9000/300 = > 68K, HP-UX 7.0 VAda-110-15125, Version 6.0 (#901129W1.11100)	HP 9000 Model 350 (under HP-UX 7.0)	Motorola MVME133A (68020) (bare machine)

Ada PROCESSORS *Continued*

VENDOR, COMPILER & EXPIRATION DATE	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Verdix Corporation VADS BCS/88K, AViion DGUX 4.3, VAda-110-8080, Version 6.1 (#901129W1.11101)	Data General AViiON Model 5120 (under DG/UX 4.3)	Same as Host
Verdix Corporation VADS Sun4 => SPARC, Sun OS 4.1, VAda-110-40440, Version 6.0 (#901129W1.11102)	Sun-4/490 (under SunOS 4.1)	SPARCEngine 1E (bare machine)
Wang Laboratories, Inc. Wang VS Ada Version 5.00.00 (#901129W1.11093)	Wang VS 8480 (under Wang VSOS 7.30.02)	Same as Host
*Validated by Registration Wang Laboratories, Inc. Wang VS Ada Version 5.00.00 (BASE #901129W1.11093)	Wang VS Models: 100 & 300; 5430, 5440, 5450 & 5460; 7010, 7110, 7120, 7150 & 7310; 8220, 8230, 8260, 8430, 8460, 8470 & 8480; and 10050, 10075 & 10100 (under all VS OS versions 7.21.xx & 7.30.xx)	Same as Host
York Software Engineering Limited York Ada Compiler Environment (ACE) Release 5 (#901127N1.11073)	Intergraph InterPro 3050 Workstation (under CLIX R3.1)	Same as Host
*Validated by Registration York Software Engineering Limited York Ada Compiler Environment (ACE) Release 5 (BASE #901127N1.11073)	InterServe 200, 300, 2000, 3000, 4200, 5200, 6000, 6105 & 6505 (under CLIX Release 3.1)	Any Host
*Validated by Registration York Software Engineering Limited York Ada Compiler Environment (ACE) Release 5 (BASE #901127N1.11073)	InterAct 220, 2020, 3050, 6040, 6080, 6240 & 6280 (under CLIX Release 3.1)	Any Host
*Validated by Registration York Software Engineering Limited York Ada Compiler Environment (ACE) Release 5 (BASE #901127N1.11073)	Intergraph Mobile GIS/C2 (under CLIX Release 3.1)	Same as Host
*Validated by Registration York Software Engineering Limited York Ada Compiler Environment (ACE) Release 5 (BASE #901127N1.11073)	InterPro 125, 225, 340, 360, 2020, 3070, 6040, 6240, 6080 & 6280 (under CLIX Release 3.1)	Any Host
*Validated by Registration York Software Engineering Limited York Ada Compiler Environment (ACE) Release 5 (BASE #901127N1.11073)	InterView 220 & 3050 (under CLIX Release 3.1)	Any Host

5. PASCAL PROCESSORS

VENDOR	PROCESSOR ID VSR # & LEVEL	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	OTHER ENVIR HW/OS	NONCON- FORMITIES
BSO/TASKING	BSO/Pascal II Version 1.20 producing code for MC68881 PCVS/0079/UK Level 0	Host: Digital VAXStation 3100 VAX/VMS Version 5.3 Target: Applied Microsystems ES1800 w/ES68020, MC68881	7/1/91	Host: Digital VAX series VAX/VMS Version 4.7-5.3	Yes
	BSO/Pascal II Version 1.20 producing emulation code PCVS/0080/UK Level 0	Host: Digital VAXStation 3100 VAX/VMS Version 5.3 Target: Applied Microsystems ES1800 w/ES68020, MC68881	7/1/91	Host: Digital VAX series VAX/VMS Version 4.7-5.3	Yes
Bull HN, Inc.	Pascal SXL-3002 Version 01.01 PCVS/0001/F Level 0/1	DPX/2 210 BOS, Version 2.0	5/28/91	DPX/2 320, 340 BOS 2.0, 1.1 DPX/2 210 BOS 1.1	
	GCOS 8 Pascal PCV 1.1 Version 1.1 NIST-90/1283 Level 0/1	Bull HN DPS 90 GCOS 8 Version SR40003	5/1/91	DPS 8000, 9000 GCOS 8 Version SR40003	
	GCOS 8 Pascal PCV 1.1 Version 1.1 NIST-90/1284 Level 0/1	Bull HN DPS 90 GCOS 8 Version SR40003	5/1/91	DPS 8000, 9000 GCOS 8 Version SR40003	
Control Data Corporation	PASCAL/VE Version 1.6 Level 739 NIST-89/2904 Level 0/1	CYBER 180-995 NOS/VE Version 1.5.1 L739	4/1/91	CYBER 180 Series NOS/VE Version 1.5.1 L739	
Digital Equipment Corporation	Pascal for RISC Version 1.1 NIST-90/2152 Level 0/1	DECsystem 5840 ULTRIX(tm) Version 4.0	9/1/91	DECstations 2100, 3100, 5000-200 ULTRIX Worksystem Software Version 4.0 DECsystem 3100, 5400, 5810, 5820, 5830, 5840, 5000 model 200 ULTRIX Version 4.0	
	VAX Pascal Version 4.1 NIST-90/2151 Level 0/1	VAX 8800 VMS Version 5.3	9/1/91	VAX 8200, 8250, 8300, 8350, 8500, 8530, 8550, 8600, 8650, 8700, 8800, 8810, 8820, 8830, 8840, 8842, 8974, 8978; VAX- 11/730, 11/750, 11/780, 11/785; 4000 mod 300; 6000 mod 200, 300, 400; MicroVAX II, 2000, 3100, 3300, 3400, 3500, 3600, 3800, 3900; VAXstation II, 2000, 3100, 3200, 3500, 3520, 3540; VAXserver 3100, 3300, 3400, 3500, 3600, 3602, 3800, 3900, 6000-210, 6000-310, 6000- 410, 6000-420 VMS Version 5.3	
Edinburgh Portable Compilers Ltd.	EPC Pascal-E Version 4.3.2 PCVS/0081/UK Level 0/1	ICL DRS 3000 DRS/NX IXP Release 4	11/1/91		
	EPC Pascal-E Version 4.3.2 PCVS/0082/UK Level 0/1	ICL DRS 6000 DRS/NX 6000 Release 4	11/1/91		

PASCAL PROCESSORS, *Continued*

VENDOR	PROCESSOR ID <i>VSR # & LEVEL</i>	HARDWARE & <i>OPERATING SYSTEM</i>	EXPIRY DATE	OTHER ENVIR HW/OS	NONCON- FORMITIES
	EPC Pascal-E Version 4.3.2 <i>PCVS/0083/UK Level 0/1</i>	OPUS PM/8000 <i>UNIX Release 3.0</i>	11/1/91		
Honeywell Federal Systems Inc.	GCOS Pascal PSC1.1 Version 1.1 <i>NIST-90/1283 Level 0/1</i>	Honeywell DPS-90 <i>GCOS8 SR4003</i> <i>Single Segment Mode</i>	4/1/91		
	GCOS Pascal PCV1.1 Version 1.1 <i>NIST-90/1283 Level 0/1</i>	Honeywell DPS-90 <i>GCOS8 SR4003</i> <i>Multi Segment Mode</i>	4/1/91		
IBM Corporation	IBM AIX XL PASCAL Compiler/6000 Version 1 Release 1 <i>NIST-89/2243</i>	IBM RISC System/6000 POWERstation 520 <i>AIX Version 3 for RISC</i> <i>System/6000 Version 3 Release 1</i>	4/1/91	POWERstation 320, 530, 730; POWERserver 320, 520, 530, 540, 930 <i>AIX Version 3 for RISC</i> <i>System/6000 Ver. 3 Release 1</i>	
Prime Computer, Inc.	Pascal, Release T2.1-22.1 <i>NIST-90/1322 Level 0/1</i>	Prime Computer Series, Model 9955 <i>PRIMOS Revision 22.1</i>	4/1/91	Prime 2350, 2450, 2455, 4050, 4150, 4450, 6150, 6350, 6550, 2250, 2550, 2655, 2755, 9650, 9655, 9750, 9755, 9950, 9955, 9955-II, 740, 850 <i>PRIMOS Revision 22.1</i>	
Sequent Computer Systems	EPC Pascal Version 4.3.0p <i>NIST-90/2183 Level 0/1</i>	Sequent Model S16 <i>Dynix/ptx Version 1.2</i>	9/1/91	Sequent Symmetry Series S3, S16, S27, S81 <i>Dynix/ptx Version 1.1</i> Sequent Symmetry Series S3, S16, S27, S81 (w/weitek 1167 (FPU)) <i>Dynix/ptx Version 1.1, 1.2</i>	
Siemens Nixdorf Informations- systeme AG	SNI Pascal-XT Version 2.1A <i>PCVS/0084/UK Level 0/1</i>	SNI H120-I 7.592I-0003 <i>BS2000 Version 10.0T20</i>	1/1/92	SNI 7.500 <i>BS2000 Version 9.0A-10.10A</i>	
	SNI Pascal-XT Version 2.1A <i>PCVS/0085/UK Level 0/1</i>	SNI MX500 <i>SINIX-F Version 5.21</i>	1/1/92		
	SNI Pascal-XT Version 2.1A <i>PCVS/0086/UK Level 0/1</i>	SNI MX300-50 <i>SINIX-L Version 5.4</i>	1/1/92		
	SNI Pascal-XT Version 2.1A <i>PCVS/0087/UK Level 0/1</i>	SNI MX300-30 <i>SINIX-H Version 5.23</i>	1/1/92	SNI MX300-30 <i>SINIX-H Version 5.1B-5.24</i>	
	SNI Pascal-XT Version 2.1A <i>PCVS/0088/UK Level 0/1</i>	SNI WX200 <i>SINIX-ODT-R Version 1.5</i>	1/1/92		
	SNI Pascal-XT Version 2.1A <i>PCVS/0089/UK Level 0/1</i>	SNI C40-S FALCON 1281 <i>BS2000 Version 9.5A</i>	1/1/92	SNI 7.500 <i>BS2000 Version 9.0A-10.0A</i>	

6. SQL PROCESSORS

VENDOR	PROCESSOR ID VSR # & LANGUAGE	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	OTHER ENVIR HW/OS	NONCON- * FORMITIES
IBM Corporation	SQL/DS Version 3 Release 2 <i>NIST-90/7021</i> Embedded C IBM C/370 Version 1 Release 2 Embedded COBOL IBM VS COBOL II Version 1 Release 3.1 Embedded Fortran IBM VS Fortran Version 2 Release 4.0 Interactive SQL (FIPS Default) Features Tested: <i>Level 2 ANSI SQL</i> <i>FIPS Sizing Defaults</i> <i>FIPS Flagger</i>	IBM 3090 <i>VM/XA SP Release 2</i>	1/1/92	IBM 30xx, 43xx, 90xx, 93xx <i>VM/ESA Release 1</i> <i>VM/SP Release 6</i> <i>VM/XA SP Release 2</i>	
	SQL/DS Version 3 Release 2 <i>NIST-90/7022</i> Embedded COBOL IBM VS COBOL II Version 1 Release 3.2 Embedded Fortran IBM VS Fortran Version 1 Release 4.1 Interactive SQL (FIPS Default) Features Tested: <i>Level 2 ANSI SQL</i> <i>FIPS Sizing Defaults</i> <i>FIPS Flagger</i>	IBM 3090 <i>VSE/ESA Release 1</i>	1/1/92	IBM 30xx, 43xx, 90xx, 93xx <i>VSE/ESA Release 1</i> <i>VSE/SP Release 3</i> <i>VSE/SP Release 4</i>	
Informix Software Inc.	INFORMIX-OnLine Version 4.10 <i>NIST-91/7031</i> Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 Sun C 4.1 Features Tested: <i>Level 2 ANSI SQL</i> <i>FIPS Sizing Defaults</i> <i>FIPS Flagger</i>	Sun 4 Model 260 <i>Sun OS 4.1</i>	2/1/92	Sun Model 4/60, 4/100, 4/200; Sun Sparcserver 1, 1+, 330, 370, 390, 490; Sun Sparcstation 300, 330 <i>Sun OS 4.1</i> Solbourne Series 4/601, 4/602, 4/603, 4/604, 5/601, 5/602, 5/604, 5/671, 5/672, 5/673, 5/674 <i>OS/MP 4.0</i>	1 C
	INFORMIX-OnLine Version 4.10 <i>NIST-91/7032</i> Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 AT&T C 4.2 Features Tested: <i>Level 2 ANSI SQL</i> <i>FIPS Sizing Defaults</i> <i>FIPS Flagger</i>	AT&T 3B2/700 <i>Unix System V Release 3.2.1, Rev. 3</i>	2/1/92	AT&T 3B2 300, 310, 400, 500, 600, 750 <i>Unix System V Release 3.2.1, Rev. 3</i>	1 C

* This column lists the number of nonconformities for each interface tested (C, COBOL, Fortran, etc). "FIPS Flagger" in this column indicates that the FIPS Flagger requirement of FIPS 127-1 was not implemented. Refer to VSR for details. The number of nonconformities is only one limited measure of the quality of an SQL interface. It is more important to analyze the nature of each individual nonconformity and its impact on meeting user requirements.

SQL PROCESSORS *Continued*

VENDOR	PROCESSOR ID VSR # & LANGUAGE	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	OTHER ENVIR HW/OS	NONCON- * FORMITIES
	INFORMIX-OnLine Version 4.10 <i>NIST-91/7033</i> Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 HPUX C Features Tested: <i>Level 2 ANSI SQL</i> <i>FIPS Sizing Defaults</i> <i>FIPS Flagger</i>	HP 9000/825 <i>HP-UX Version A.B7.00</i>	2/1/92	HP 9000/808, 808S, 815, 815S, 822, 825, 825S, 832, 834, 835, 835S, 835SE, 840, 842, 845, 845S, 850, 852, 855 <i>HP-UX A.B7.00</i>	1 C
	INFORMIX-OnLine Version 4.10 <i>NIST-91/7034</i> Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 C 4.1 Features Tested: <i>Level 2 ANSI SQL</i> <i>FIPS Sizing Defaults</i> <i>FIPS Flagger</i>	Prime EXL320 <i>Unix System V 3.1</i>	2/1/92		1 C
	INFORMIX-OnLine Version 4.10 <i>NIST-91/7035</i> Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 Interactive C 4.1.5 Features Tested: <i>Level 2 ANSI SQL</i> <i>FIPS Sizing Defaults</i> <i>FIPS Flagger</i>	INTEL WS3000 <i>Interactive Unix System V 3.2.2</i>	2/1/92	Compaq Systempro 486 <i>Interactive Unix V/386 2.2</i> Compaq Deskpro 386/25; 386/33; 486/25 MDL120; 486/25 MDL 320; 486/25 MDL650; 486/33 <i>Interactive Unix V/386 2.2</i> Data General Dasher 386/386SX <i>Interactive Unix V/386 2.2</i> AT&T 6386; 6386/25; 6386/33 <i>Unix System 3.2</i>	1 C
	INFORMIX-ESQL/C Version AR4.00 <i>NIST-91/7036</i> Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version AR4.00 Microsoft 6.0 C Features Tested: <i>Level 2 ANSI SQL</i> <i>(single-user)</i> <i>FIPS Sizing Defaults</i> <i>FIPS Flagger</i>	Concord 386 <i>MS-DOS 3.30</i>	2/1/92	Compaq Deskpro 386/486 <i>MS-DOS 3.30</i> IBM PC AT <i>MS-DOS 4.0/3.30</i> Toshiba 3100 SX/3200 <i>MS-DOS 4.01</i>	14 C

SQL PROCESSORS *Continued*

VENDOR	PROCESSOR ID VSR # & LANGUAGE	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	OTHER ENVIR HW/OS	NONCON- * FORMITIES
Oracle Systems Corporation	ORACLE RDBMS Version 7.0 <i>NIST-91/7051</i> Embedded C Pro*C Version 1.5 VAX C Version 3.1 Embedded COBOL Pro*COBOL Version 1.5 VAX COBOL Version 4.2 Embedded Fortran Pro*Fortran Version 1.5 VAX Fortran Version 5.2 Embedded Pascal Pro*Pascal Version 1.5 VAX Pascal Version 3.9 Interactive SQL (FIPS Default) SQL*DBA Version 7.0 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	DEC VAX 6560 <i>VMS Version 5.4</i>	4/1/92	VAX, MicroVAX, VAXStation <i>VMS Versions 5.0 - 5.4</i>	
	ORACLE RDBMS Version 6.0 <i>NIST-91/7052</i> Embedded C Pro*C Version 1.4 VAX C Version 3.1 Embedded COBOL Pro*COBOL Version 1.4 VAX COBOL Version 4.2 Embedded Fortran Pro*Fortran Version 1.4 VAX Fortran Version 5.2 Embedded Pascal Pro*Pascal Version 1.4 VAX Pascal Version 3.9 Interactive SQL (FIPS Default) SQL*DBA Version 6.0 SQL*PLUS Version 3.0 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults	DEC VAX 6560 <i>VMS Version 5.4</i>	4/1/92	VAX, MicroVAX, VAXStation <i>VMS Versions 4.6 - 5.4</i>	2 Schema 14 C 11 COBOL 11 Fortran 11 Pascal 9 Interactive FIPS Flagger
ShareBase Corporation	ShareBase III Release 1 <i>NIST-90/7001</i> Embedded C Sun UNIX C 4.2 Release 3.4 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults	Client: Sun 3/50 <i>Sun OS 4.2 Release 3.5</i> Server: Server/8000 <i>Sharebase III Release 1</i>	5/18/91	Client: Sun 3/60 <i>Sun OS 4.2 Release 3.5</i> Server: Server/8000 <i>ShareBase III Release 1</i>	FIPS Flagger
Unisys Corporation	SQLDB Mark 3.9 <i>NIST-90/7011</i> Module COBOL A Series COBOL ANSI- 85, Version 2.0 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Unisys A15 Model H <i>MCP/AS Mark 3.9</i>	1/1/92	Unisys Micro A, A1, A2, A3, A4, A5, A6, A9, A10, A12, A15, A16, A17, A19 <i>MCP/AS Mark 3.9</i>	

APPENDIX A

CONTRIBUTORS TO THE VALIDATED PROCESSOR LIST

APPENDIX A

CONTRIBUTORS TO THE VALIDATED PROCESSOR LIST

The organizations listed below have performed validations, supplied information for the Validated Processor List, or are sources for Validation Summary Reports (VSR). These organizations may be contacted for validation information and for copies of VSR(s). COBOL and Fortran VSR(s) may be obtained from NIST. Pascal VSR(s) whose VSR numbers begin with "NIST" or end in "US" may also be obtained from NIST. Pascal VSR(s) whose VSR numbers end in "UK" are available from BSI. Ada VSR(s) may be obtained from the Ada Information Clearinghouse, the National Technical Information Service, or from the Ada Validation Facility (AVF) that produced the VSR. To obtain a copy of a VSR from an AVF, locate the upper case letter in the certificate number (e.g., 870608W1. . .). That letter corresponds to the letter in the CODE column to the left of the organizations listed below.

<u>CODE</u>	<u>ORGANIZATION</u>	<u>CONTACTS</u>	<u>LANGUAGE</u>
S	National Institute of Standards and Technology Software Standards Validation Group Building 225, Room A266 Gaithersburg, MD 20899 (301) 975-3274 Telex: 197674 NBS UT Telecopier: (301) 590-0932	L. Arnold Johnson Judy Kailey Woody Schneider Kathryn Miles William Dashiell	All COBOL Fortran BASIC, SQL Pascal, SQL Ada
N	National Computing Centre Limited Oxford Road Manchester M1 7ED ENGLAND (011) +44 (61) 228 6333 +44 (61) 236 4715 (FAX) Telex 668962	Jane Pink	COBOL Fortran Ada
	Gesellschaft fur Mathematik und Datenverarbeitung mbH Institut fuer Technologie-Transfer Schloss Birlinghoven D-5205 St Augustin 1 Federal Republic of Germany	Berthold Kirsch	Fortran

<u>CODE</u>	<u>ORGANIZATION</u>	<u>CONTACTS</u>	<u>LANGUAGE</u>
	British Standards Institution P.O. Box 375 Milton Keynes MK14 6LL ENGLAND (011) +44 0908-220908 Telex: 827682 BSIQAS G	John Souter	Pascal
W	Ada Validation Facility Language Control Facility ASD/SCEL Wright-Patterson AFB, OH 45433-6503 (513) 255-4472	Bobby Evans	Ada
B or A	BNI-AVF AFNOR Tour Europe, Cedex 7 92080 Paris La Defense FRANCE (011) 33-142915960 Telefac: (011) 33-142915656 Telex: AFNOR 611 974 F	Fabrice Garnier de Labareyre	Ada
I	IABG-AVF Industrieanlagen-Betriebsgesellschaft Dept. ITE Einsteinstrasse 20 D-8012 Ottobrunn Federal Republic of Germany +49-89-6088-2477 e-mail: tonndorf@ajpo.sei.cmu.edu	Michael Tonnorf	Ada
	Ada Information Clearinghouse 3D139 1211 S. Fern, C-107 The Pentagon Washington, D.C. 20301-3081 (703) 685-1477		Ada VSR(s)
	National Technical Information Service U.S. Department of Commerce 5285 Port Royal Road Springfield, VA 22161 (703) 487-4650		Ada VSR(s)
	Bureau Inter Administration de Documentation Informatique 21 Rue Bara 92132 Issy France	E. Bialot	COBOL Fortran

APPENDIX B

OTHER FIPS CONFORMANCE TESTING PRODUCTS AND SERVICES

APPENDIX B

OTHER FIPS CONFORMANCE TESTING PRODUCTS AND SERVICES

The purpose of this appendix is to provide information about products and services that are available to Federal Agencies who are attempting to identify sources that may aid them in assessing products for conformance to FIPS.

The entries in this list identify the topic, the standard tested, the NIST contact, and the product or service offered. The letters T, S, or C in the Product/Service column indicate a test method, testing service, or certificate respectively.

<u>TOPIC</u>	<u>STANDARD</u>	<u>CONTACT</u>	<u>PRODUCT/SERVICE</u>
MUMPS	FIPS PUB 125	William Dashiell NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-2490	T
GKS	FIPS PUB 120	Susan (Quinn) Sherrick NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3268	T, S, C
POSIX	FIPS PUB 151	Jim Hall NIST, Bldg. 225, Rm. B266 Gaithersburg, MD 20899 (301) 975-3273	T*
Message Authentication	FIPS PUB 113	Miles Smid NIST, Bldg. 225, Rm. A216 Gaithersburg, MD 20899 (301) 975-2938	T, S, C
Key Management Validation	ANSI X9.17	Miles Smid NIST, Bldg. 225, Rm. A216 Gaithersburg, MD 20899 (301) 975-2938	T, S, C
Data Encryption Standard	FIPS PUB 46-1	Miles Smid NIST, Bldg. 225, Rm. A216 Gaithersburg, MD 20899 (301) 975-2938	T, S, C

*Distributed through: National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161
(703) 487-4650

<u>TOPIC</u>	<u>STANDARD</u>	<u>CONTACT</u>	<u>PRODUCT/SERVICE</u>
GOSIP	FIPS PUB 146	Stephen Nightingale NIST, Bldg. 225, Rm 141 Gaithersburg, MD 20899 (301) 975-3616	T
1984 X25	CCITT X.25-1984 ISO 7776, ISO 8208 ISO 8882, ISO 9646 FIPS PUB 100-1 FIPS PUB 122(planned)	David Su NIST, Bldg. 223, Rm. B364 Gaithersburg, MD 20899	T
ISDN Data Link Layer	Q921.LAPD ANSI T1.602	David Su NIST, Bldg. 223, Rm. B364 Gaithersburg, MD 20899 (301) 975-6194	T
ISDN Physical Layer	S/T Interface ANSI T1.605 (S/T Interface) ANSI T1.601 (U Interface)	David Su NIST, Bldg. 223, Rm. B364 Gaithersburg, MD 20899 (301) 975-6194	T (abstract)
ISDN Network Layer	Q931 ANSI T1.607 ANSI T1.608 FIPS PUB (planned)	David Su NIST, Bldg. 223, Rm. B364 Gaithersburg, MD 20899 (301) 975-6194	T
FDDI	ANSI X3T9 FIPS PUB (planned)	David Su NIST, Bldg. 223, Rm. B364 Gaithersburg, MD 20899 (301) 975-6194	T

APPENDIX C

REGISTER OF GOSIP ABSTRACT TEST SUITES

APPENDIX C

REGISTER OF GOSIP ABSTRACT TEST SUITES

October 30, 1990

Abstract Test Suites (ATS) for the GOSIP program of Means of Testing assessment, and GOSIP product conformance are listed here. Entries on this register are Provisional, valid until March 30, 1992, according to the provisions of the GOSIP Conformance and Interoperation Testing and Registration proposed FIPS. These ATS, which relate to the protocols identified in FIPS 146 GOSIP, Version 1, can be obtained from:

The National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22161

The original sources are credited in this list, however the Test Suites are provided under NIST cover.

ATS-1 X.25/HDLC LAP B

X.25 DTE Conformance Testing: Part 2 Text for Data Link Layer Test Suite; ISO DP 8882-2, June 1990.

ATS-2 X.25/PLP

X.25 DTE Conformance Testing: Part 3 Packet Layer Conformance Test Suite; ISO DP 8882-3, June 1990.

ATS-3 8802/3

Corporation for Open Systems, ISO 8802/3 (CSMA/CD) 10 Base 5 Physical Layer Signalling (PLS), Issue 0.1, October 1989.

ATS-4 8802/4

Institute for Electrical and Electronic Engineers (IEEE), 802.4 J, August 1990.

ATS-5 8802/5

-none-

ATS-6 8802/2

Corporation for Open Systems, ISO 8802/2 LLC (Type 1) Abstract Test Suite (extracted from 8802/3 10 Base 5 Layer 2 Test System Results Analysis Guide - LLC Sublayer), October 1989.

ATS-7 CLNP End System

The National Computing Centre Ltd, Internet Protocol Tests and Testing Guide for IS 8473 Connectionless Network Protocol Implementations, Issue 2, NCC/TPD-90/003, July 1990.

ATS-7/1 CLNP Intermediate System

ATS-7 provides CLNP End System tests only. In order to accommodate the testing of CLNP Intermediate Systems NIST has developed an adaptation to that test suite which describes the behavior of an IS with respect to the ES tests. It uses the Transverse Testing Method. This technical addendum is available from NIST.

ATS-8 Transport Class 0

ISO/OSI Transport Class 0 CTS-WAN Abstract Test Suite, CTS-WAN/T&S/ABS/TR0/CS/1.0, Revision 2.1, October 1988.

ATS-9 Transport Class 4

The National Computing Centre Ltd, Transport Class 4 Tests and Testing Guide for ISO 8073 Transport Class 4 Implementations, Issue 2, NCC/TPD-90/002, July 1990.

ATS-10 Session

Session Generic Test Suite (Vols 1 and 2), CTS-WAN/T&S/GEN/SES/1.0, September 1988.

ATS-13 X.400/RTS

The National Computing Centre Ltd, MHS Reliable Transfer Service Tests and Testing Guide, Issue 2, April 1990.

ATS-14 X.400/P1

The National Computing Centre Ltd, MHS P1 Tests and Testing Guide, Issue 3, April 1990.

ATS-15 X.400/P2

The National Computing Centre Ltd, MHS P2 Tests and Testing Guide, Issue 3, April 1990.

ATS-16 FTAM/ACSE/Presentation

FTAM:Open Systems Testing Consortium, FTAM Abstract Test Suite for Initiator and Responder, T1 and T2, under NIST cover, August 1990.

ACSE, Presentation: extracted from The National Computing Centre Ltd/Corporation for Open Systems, FTAM Testing Guide, NCC/TPD-89/016, Issue 2.8, August 1990.

APPENDIX D

REGISTER OF GOSIP MEANS OF TESTING

APPENDIX D

REGISTER OF GOSIP MEANS OF TESTING

November 30, 1990

Means of Testing for the GOSIP program of conformance testing are listed here. These MOTs relate to the protocols identified in FIPS 146 GOSIP, Version 1. For further details of each MOT listed please contact the named supplier. Entries on this register are Provisional, valid until March 30, 1992, according to the provisions of the "GOSIP Conformance and Interoperation Testing and Registration" proposed FIPS.

Supplier	Test System Name, Release and Date	Hardware/Operating System Platform(s)	Protocols/Profiles
Contact	Type of Registration and Expiration Date	Connectivity	Base/Derived
Date Registered			Abstract Test Suite Used

MOT-1 WAN TEST SYSTEMS

Corporation for Open Systems 1750 Old Meadow Road McLean, VA 22102 USA Darrell Ramsey Tel: +1 703 883-2731 September 30, 1990	COS X.25 Conformance Test System (XCTS), Version 1.2 Provisional, until March 30, 1992	Sun 3 Series, Sun OS 3.5; Idacom PT300, PT500, MPT368.2; Sun 4 Series, Sun OS 4.1 RS232C	X.25 PLP; X.25 HDLC LAP B DTE Testing; X.25 DTE- DCE Base ATS-1, ATS-2
Idacom Electronics Ltd 4211-95 Street Edmonton, Canada T6E 5R6 Allen Barth Tel: +1 301 596 0766 September 30, 1990	PT300, PT500, MPT368.2, ISO 8882 V1.7, September 1990 Provisional, until March 30, 1992	Idacom. RS232C V.35 X.21	X.25 PLP; X.25 HDLC LAP B DTE Testing; X.25 DTE- DCE, X.25 DTE-DTE Base ATS-1, ATS-2
Telenex Corporation 7401 Boston Boulevard Springfield, VA 22153 Daniel J. Gruhn Tel: +1 703 644 9142 December 13 1990	Interview 7200/770 Turbo Protocol Analyser, O/S Version 8.02 Provisional, until March 30, 1992	Telenex. RS232C V.35 RS449	X.25 PLP; X.25 HDLC LAP B DTE Testing; X.25 DTE- DCE, X.25 DTE-DTE Base ATS-1, ATS-2

Supplier	Test System Name, Release and Date	Hardware/Operating System Platform(s)	Protocols/Profiles
Contact	Type of Registration and Expiration Date	Connectivity	Base/Derived
Date Registered			Abstract Test Suite Used

MOT-2 LAN TEST SYSTEMS

Corporation for Open Systems 1750 Old Meadow Road McLean, VA 22102 USA	COS 802.3 Test System, Version 1.1, May 1989. Provisional, until March 30, 1992	HP 16500A Logic Analysis System Mainframe, Version 2.0 HP 16531A 400 MHz Scope Card, Version 2.01 HP 16530 A Timebase Card, Version 2.0 HP 16510 A 25MHz State/Timing Card HP 8656 B Signal Generator, options 001 and 002 HP 8770 A Arbitrary Waveform Synthesizer HP 4972A LAN Protocol Analyzer with RS-232 Option, Version B.04.01 8802/3 Physical	IS 8802/3 MAC Base ATS-3
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Corporation for Open Systems 1750 Old Meadow Road McLean, VA 22102 USA	COS 802.2 Test System, Version 1.1, May 1989. Provisional, until March 30, 1992	IBM PC/AT Compatible HP 4972A LAN Protocol Analyzer with RS-232 Option, Version B.04.01 8802/3 MAC, Physical	IS 8802/2 Type 1 Base ATS-6
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The Networking Centre Ltd Focus 31, Mark Road Hemel Hempstead, Herts HP2 7BW, ENGLAND	LANTIC MAC Tester, Version 1.4, July 1988 Provisional, until March 30, 1992	Rohde and Schwartz Analyzer Spider Network Monitor 8802/3 Physical	IS 8802/3 MAC Base ATS-3
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The Networking Centre Ltd Focus 31, Mark Road Hemel Hempstead, Herts HP2 7BW, ENGLAND	LANTIC LLC Tester, Version 2.2, October 1989 Provisional, until March 30, 1992	Sun 3 Series, Sun OS 3.5 Spider Network Monitor 8802/3 MAC, Physical	IS 8802/2 Type 1 Base ATS-6
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Supplier	Test System Name, Release and Date	Hardware/Operating System Platform(s)	Protocols/Profiles
Contact	Type of Registration and Expiration Date	Connectivity	Base/Derived
Date Registered			Abstract Test Suite Used
The Networking Centre Ltd Focus 31, Mark Road Hemel Hempstead, Herts HP2 7BW, ENGLAND Dennis Harvey Tel: +44 442 217611 October 30, 1990	LANTIC Internet Tester, Version 2.2, October 1989 Provisional, until March 30, 1992	Sun 3 Series, Sun OS 3.5 Spider Network Monitor 8802/2, 8802/3 MAC, Physical	IS 8473 CLNP End System Only Base ATS-7
The National Computing Centre Ltd Oxford Road Manchester, M1 7ED ENGLAND Darrell Ramsey Tel: +1 703 883 2731 October 30, 1990	NCC: COS IP Tester, Version 2.1, August 1990 Provisional, until March 30, 1992	Sun 3 Series, Sun OS 3.5 Sun 4 Series, Sun OS 4.1 8802/2, 8802/3, MAC, Physical	IS 8473 CLNP End System Only Base ATS-7

MOT-4 TRANSPORT TEST SYSTEMS

The National Computing Centre Ltd Oxford Road, Manchester, M1 7ED England Darrell Ramsey Tel: +1 703 883-2731 September 30, 1990	NCC: COS Transport Tester, Version 2.1, August 1990 Provisional, until March 30, 1992	Sun 3 Series, Sun OS 3.5 Sun 4 Series, Sun OS 4.1 X.25 PLP/HDLC LAP B/RS232C X.25 PLP/HDLC LAP B/V.35	IS 8073 Transport Class 0 Base ATS-8
The National Computing Centre Ltd Oxford Road Manchester, M1 7ED England Darrell Ramsey Tel: +1 703 883-2731 September 30, 1990	NCC: COS Transport Tester, Version 2.1, August 1990 Provisional, until March 30, 1992	Sun 3 Series, Sun OS 3.5 Sun 4 Series, Sun OS 4.1 CLNP/8802.3; CLNP/8802.4 CLNP/X.25 PLP/HDLC LAP B/RS232C; CLNP/X.25 PLP/HDLC LAP B/V.35	IS8073 Transport Class 4 Base ATS-9
TTTN Alcatel Inc 1300 North 17th Street Arlington, VA 22209 Scott Schmitz Tel: +1 703 528 2662 September 30, 1990	XRTLE, Version 3.00, July 1990 Provisional, until March 1992	386-PC Interactive, 386/ix UNIX V2.0.2 (Unix System V.3.2), Interactive X11, Oracle V5.1 X.25 PLP/HDLC LAP B/RS232C X.25 PLP/HDLC LAP B/V.35	IS 8073 Transport Class 0 Base ATS-8

Supplier	Test System Name, Release and Date	Hardware/Operating System Platform(s)	Protocols/Profiles
Contact	Type of Registration and Expiration Date	Connectivity	Base/Derived
Date Registered			Abstract Test Suite Used
TTTN Alcatel Inc 1300 North 17th Street Arlington, VA 22209	XRTLE, Version 3.00, July 1990	386-PC Interactive, 386/ix UNIX V2.0.2 (Unix System V.3.2), Interactive X11, Oracle V5.1	IS 8073 Transport Class 4
Scott Schmitz Tel: +1 703 528 2662	Provisional, until March 1992	X.25 PLP/HDLC LAP B/RS232C X.25 PLP/HDLC LAP B/V.35 CLNP/8802.2/8802.3	Base
September 30, 1990			ATS-9

MOT-5 SESSION TEST SYSTEMS

The National Computing Centre Ltd Oxford Road Manchester, M1 7ED England	NCC Session Test System, Version 7.1, April 1990	Sun 3 Series, Sun OS 3.5 Sun 4 Series, Sun OS 4.1	IS 8327 Session Full Session
Darrell Ramsey Tel: +1 703 883-2731	Provisional, until March 30, 1992	TP4/CLNP/8802.2/8802.3; TP4/CLNP/X.25 PLP/HDLC LAP B/RS 232C; TP4/CLNP/X.25 PLP/HDLC LAP B/V.35; TP0/X.25 PLP/HDLC LAP B/RS232C; TP0/X.25 PLP/HDLC LAP B/V.35	Base
September 30, 1990			ATS-10
The National Computing Centre Ltd Oxford Road Manchester, M1 7ED England	NCC: COS MHS Tester, Version 2.1, August 1990	Sun 3 Series, Sun OS 3.5 Sun 4 Series, Sun OS 4.1	IS 8327 Session MHS Subset, Embedded Session Testing
Darrell Ramsey Tel: +1 703 883-2731	Provisional, until March 30, 1992	TP4/CLNP/8802.2/8802.3; TP4/CLNP/8802.2/8802.4; TP0/X.25 PLP/HDLC LAP B/RS232C; TP0/X.25 PLP/HDLC LAP B/V.35	Base
September 30, 1990			ATS-10 (MHS Subset)
The National Computing Centre Ltd Oxford Road Manchester, M1 7ED England	NCC: COS FTAM Tester, Version 2.1, August 1990	Sun 3 Series, Sun OS 3.5 Sun 4 Series, Sun OS 4.1	IS 8327 Session FTAM Subset, Embedded Session Testing
Darrell Ramsey Tel: +1 703 883-2731	Provisional, until March 30, 1992	TP4/CLNP/8802.2/8802.3; TP4/CLNP/8802.2/8802.4; TP4/CLNP/X.25 PLP/HDLC LAP B/RS 232C; TP4/CLNP/X.25 PLP/HDLC LAP B/V.35; TP0/X.25 PLP/HDLC LAP B/RS232C; TP0/X.25 PLP/HDLC LAP B/V.35	Base
September 30, 1990			ATS-10 (FTAM Subset)
TTTN Alcatel Inc 1300 North 17th Street Arlington, VA 22209	XRTLE, Version 3.00, July 1990	386-PC Interactive, 386/ix UNIX V2.0.2 (Unix System V.3.2), Interactive X11, Oracle V5.1	IS 8327 Session Full Session
Scott Schmitz Tel: +1 703 528 2662	Provisional, until March 30, 1992	TP0/X.25 PLP/HDLC LAP B/RS232C; TP0/X.25 PLP/HDLC LAP B/V.35; TP4/CLNP/8802.2/8802.3	Base
September 30, 1990			ATS-10

Supplier	Test System Name, Release and Date	Hardware/Operating System Platform(s)	Protocols/Profiles
Contact	Type of Registration and Expiration Date	Connectivity	Base/Derived
Date Registered			Abstract Test Suite Used

MOT-6 X.400 TEST SYSTEMS

The National Computing Centre Ltd Oxford Road Manchester, M1 7ED England Darrell Ramsey Tel: +1 703 883-2731 September 30, 1990	NCC: COS MHS Tester, Version 2.1, August 1990 Provisional, until March 30, 1992	Sun 3 Series, Sun OS 3.5 Sun 4 Series, Sun OS 4.1 Session/TP0/X.25 PLP/HDLC LAP B/RS232C; Session/TP0/X.25 PLP/HDLC LAP B/V.35; Session /TP4/CLNP/8802.2/8802.3; Session/TP4/CLNP/8802.2/8802.4	CCITT X.400 Series P2/P1 End System P1 Relay System Base ATS-13, ATS-14, ATS-15
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GSI-Danet Inc 1831 Wiehle Avenue Reston, VA 22090 Roy Rosner Tel: +1 703 471 7130 September 30, 1990	OSITEST/400, Version 3.3, July 1990 Provisional, until March 30, 1992	Sun 3 Series, Sun OS 3.5 Sun 4 Series, Sun OS 4.1 DEC Microvax, Ultrix 2.2 Session/TP0/X.25 PLP/HDLC LAP B/RS232C; Session/TP0/X.25 PLP/HDLC LAP B/V.35; Session /TP4/CLNP/8802.2/8802.3	CCITT/X.400 Series P2/P1/RTS End System P1/RTS Relay System Base ATS-13, ATS-14, ATS-15
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MOT-7 FTAM TEST SYSTEMS

The National Computing Centre Ltd Oxford Road Manchester, M1 7ED England Darrell Ramsey Tel: +1 703 883-2731 September 30, 1990	NCC: COS FTAM Tester, Version 2.1, August 1990 Provisional, until March 30, 1992	Sun 3 Series, Sun OS 3.5 Sun 4 Series, Sun OS 4.1 Session/TP0/X.25 PLP/HDLC LAP B/RS232C; Session/TP0/X.25 PLP/HDLC LAP B/V.35; Session /TP4/CLNP/X.25; PLP/HDLC LAP B/RS232C; Session/TP4/CLNP/X.25 PLP/HDLC LAP B/V.35; Session /TP4/CLNP/8802.2/8802.3; Session /TP4/CLNP/8802.2/8802.4	IS 8571 FTAM; IS 8823 Presentation; IS 8650 ACSE Base ATS-16
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GSI-Danet Inc 1831 Wiehle Avenue Reston, VA 22090 Roy Rosner Tel: +1 703 471 7130 September 30, 1990	OSITEST/FTAM, Version 2.4, July 1990 Provisional, until March 30, 1992	Sun 3 Series, Sun OS 3.5 Sun 4 Series, Sun OS 4.1 DEC Microvax, Ultrix 2.2 Session/TP0/X.25 PLP/HDLC LAP B/RS232C; Session/TP0/X.25 PLP/HDLC LAP B/V.35; Session /TP4/CLNP/8802.2/8802.3	IS 8571 FTAM; IS 8823 Presentation; IS 8650 ACSE Base ATS-16
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Supplier	Test System Name, Release and Date	Hardware/Operating System Platform(s)	Protocols/Profiles
Contact	Type of Registration and Expiration Date	Connectivity	Base/Derived
Date Registered			Abstract Test Suite Used
TTN Alcatel Inc 1300 North 17th Street Arlington, VA 22209	XRILE FTAM V3.2.0, September 15, 1990.	386-PC, Interactive 386/iX UNIX V2.0.2 (UNIX System V.3.2), Interactive x11, Oracle V5.1	IS 8571 FTAM; IS 8823 Presentation; IS 8650 ACSE
Scott Schmitz Tel: +1 703 528-2662	Provisional, until March 30, 1992	Session/TP0/X.25 PLP/HDLC LAP B/RS232C; Session/TP0/X.25 PLP/HDLC LAP B/V.35 Session /TP4/X.25 PLP/HDLC LAP B/V.35 Session/TP4/X.25 PLP/HDLC LAP B/RS232C; Session/TP4/CLNP/8802.2/8802.3	Base ATS-16
November 30, 1990			

APPENDIX E

REGISTER OF GOSIP CONFORMANCE TESTING LABORATORIES

REGISTER OF CONFORMANCE TESTING LABORATORIES

November 30, 1990

Conformance Testing Laboratories for the U.S. GOSIP Testing Program are listed here. All registered laboratories are deemed qualified to conduct conformance testing for U.S. GOSIP, for the Means of Testing identified. Entries on this Register may be **Full** or **Provisional**. Provisional entries are assessed and awaiting formal NVLAP Accreditation; entries are valid for 12 months from the date of registration. Fully Registered entries are NVLAP Accredited; entries are valid until expiration, revocation or suspension of NVLAP Accreditation.

Laboratory Name	Scope of Registration	Type of Registration (Full or Provisional)
Contact	Type of Laboratory (1st, 2nd or 3rd Party)	Registered Until
Bull HN 13430 North Black Canyon Highway Phoenix, AZ 85029	FTAM, MHS, Session, TP4, CLNP 1st Party	Provisional November 30, 1991.
Bill George, (602) 862-6008		
CDA Inc 301 W. Maple Avenue, Suite 100 Vienna, VA 22180	X.25 3rd Party	Provisional November 30, 1991.
Paul Moyer, (703) 938-2253		
Corporation for Open Systems 1750 Old Meadow Road McLean, VA 22102	FTAM, MHS, TP4, TP0, CLNP, X.25, 8802.3 3rd Party	Provisional November 30, 1991.
Nancy Pierce, (703) 883-2873		
Digital Equipment Corporation 550 King Street Littleton, MA 01460	TP0, CLNP 1st Party	Provisional November 30, 1991.
Immi Mohammed, (508) 486-7634		
Hewlett Packard 19420 Homestead Road Cupertino, CA 95014	MHS, TP4, TP0, CLNP 1st Party	Provisional November 30, 1991.
Murali Subbarao, (408) 447-2822		
IBM Corporation P.O. Box 12195 Research Triangle Park, NC 27709	X.25 1st Party	Provisional November 30, 1991.
J.P. Streck, (919) 254-0256		
The National Computing Centre Ltd Oxford Road Manchester, M1 7ED ENGLAND	FTAM, MHS, Session, TP4, TP0, CLNP 3rd Party	Provisional November 30, 1991.
Jane Pink, +44 61 228 6333		

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<h1 style="margin: 0;">BIBLIOGRAPHIC DATA SHEET</h1>		2. PERFORMING ORGANIZATION REPORT NUMBER		3. PUBLICATION DATE APRIL 1991								
		4. TITLE AND SUBTITLE Programming Languages and Database Language SQL VALIDATED PROCESSOR LIST										
5. AUTHOR(S) Judy B. Kailey												
6. PERFORMING ORGANIZATION (IF JOINT OR OTHER THAN NIST, SEE INSTRUCTIONS) U.S. DEPARTMENT OF COMMERCE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY GAITHERSBURG, MD 20899			7. CONTRACT/GRANT NUMBER									
9. SPONSORING ORGANIZATION NAME AND COMPLETE ADDRESS (STREET, CITY, STATE, ZIP)			8. TYPE OF REPORT AND PERIOD COVERED									
10. SUPPLEMENTARY NOTES												
11. ABSTRACT (A 200-WORD OR LESS FACTUAL SUMMARY OF MOST SIGNIFICANT INFORMATION. IF DOCUMENT INCLUDES A SIGNIFICANT BIBLIOGRAPHY OR LITERATURE SURVEY, MENTION IT HERE.) The Validated Processor List identifies those COBOL, Fortran, Ada and Pascal programming language processors that have a current validation certificate and those SQL language processors that have a registered test report, referencing the applicable Federal Information Processing Standard (FIPS) as of the date of this publication. This List also includes GOSIP Conformance Testing Registers. The testing of language processors to determine the degree to which they conform to the Federal Standards is required by Government agencies in accordance with the Federal Information Resources Management Regulation (FIRMR) Parts 201.13 and 201.39, and the associated Federal ADP and Telecommunications Standards Index. The List is updated and published quarterly.												
12. KEY WORDS (6 TO 12 ENTRIES; ALPHABETICAL ORDER; CAPITALIZE ONLY PROPER NAMES; AND SEPARATE KEY WORDS BY SEMICOLONS) Ada; certificate; COBOL; compiler; FIPS; Fortran; GOSIP; operating system; Pascal; SQL; validation												
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